

# **Air/Water:**

# **Aeroheat Inverta**

# **AH SCI 25a**



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# Technical data

## Aeroheat Inverta AH SCI 25a

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### Aeroheat AH SCI 25a

|  |           |       |                        |            |            |
|--|-----------|-------|------------------------|------------|------------|
| <b>Heat pump type</b>  |           |       | <b>AH SCI 25a</b>      |            |            |
| <b>Model</b>   |           |       | <b>Brine - Split</b>   |            |            |
| <b>Controller</b>  |           |       | <b>integrated</b>      |            |            |
| <b>WPZ-test number</b>   |           |       | <b>LW-488-20-29</b>    |            |            |
| <b>Performance range</b>   |           |       | <b>W35</b>             | <b>W45</b> | <b>W55</b> |
| Heat output min / max  | at A-7    | kW    | 6.5 - 24.5             | 5.8 - 24.7 | 5.6 - 25.3 |
|  | at A2     | kW    | 8.6 - 25.1             | 7.8 - 25.3 | 7.2 - 25.1 |
|  | at A7     | kW    | 10.1 - 26.3            | 9.1 - 25.9 | 8.5 - 26.3 |
| <b>Standard performance data</b> (as per EN 14511:2013, part load oper. 20 Hz) |           |       | <b>W35</b>             | <b>W45</b> | <b>W55</b> |
| Heat output  | at A7     | kW    | 10.1                   | 9.1        | 8.6        |
| COP  | at A7     | -     | 4.9                    | 3.5        | 2.6        |
| El. power consumption  | at A7     | kW    | 2.1                    | 2.6        | 3.3        |
| Cooling output   | at A7     | kW    | 8.1                    | 6.5        | 5.3        |
| <b>Standard performance data</b> (as per EN 14511:2013, part load oper. 30 Hz) |           |       | <b>W35</b>             | <b>W45</b> | <b>W55</b> |
| Heat output @20hz  | at A2     | kW    | 12.1                   | 11.4       | 10.9       |
| COP  | at A2     | -     | 4.1                    | 3.1        | 2.4        |
| El. power consumption  | at A2     | kW    | 2.9                    | 3.7        | 4.6        |
| Cooling output   | at A2     | kW    | 9.1                    | 7.7        | 6.3        |
| <b>Standard performance data</b> (as per EN 14511:2013, part load oper. 80 Hz) |           |       | <b>W35</b>             | <b>W45</b> | <b>W55</b> |
| Heat output @30Hz  | at A-7    | kW    | 21.1                   | 21.1       | 21.4       |
| COP  | at A-7    | -     | 2.6                    | 2.1        | 1.7        |
| El. power consumption  | at A-7    | kW    | 8.2                    | 10.1       | 12.6       |
| Cooling output   | at A-7    | kW    | 13.0                   | 11.0       | 8.8        |
| <b>Standard performance data</b> (as per EN 14511:2013, maximum 100 Hz)        |           |       | <b>W35</b>             | <b>W45</b> | <b>W55</b> |
| Heat output @100Hz   | at A-7    | kW    | 24.5                   | 24.8       | 25.3       |
| COP  | at A-7    | -     | 2.4                    | 2.0        | 1.6        |
| El. power consumption  | at A-7    | kW    | 10.2                   | 12.6       | 15.7       |
| Cooling output   | at A-7    | kW    | 14.3                   | 12.2       | 9.6        |
| <b>Energy class / Performance data (average climatic conditions)</b>           |           |       |                        |            |            |
| Energy efficiency class 35°C / 55°C  |           |       | A+++ / A++             |            |            |
| Rated thermal output Prated 35°C / 55°C  |           | kW    | 21.0 / 21.0            |            |            |
| Energy efficiency ηS 35°C / 55°C   |           | %     | 180 / 137              |            |            |
| SCOP (according to EN 14511) 35°C / 55°C                                       |           |       | 4.8 / 3.5              |            |            |
| <b>Sound (EN 12102)</b>  |           |       |                        |            |            |
| Sound power inside   |           | dB(A) | 38                     |            |            |
| Sound power outside  |           | dB(A) | 49                     |            |            |
| <b>Vaporiser, brine side (at W35)</b>  |           |       |                        |            |            |
| Volume flow min. (A7) / max. (A-7) / nominal (A2)                              |           | m³/h  | 2.7                    | 4.9        | 3.1        |
| Pressure drop via heat pump / Dry cooler                                       |           | kPa   | 20.0                   | 65.0       | 24.0       |
| max. pressure drop connecting line @ A-15°C                                    |           | kPa   | 95.0                   | 47.0       | 92.0       |
| Medium water / ethylene glycol   |           | %     | 56 / 44                |            |            |
| Built-on brine pump  |           | -     | Stratos Para 25 / 1-12 |            |            |
| <b>ondenser, heater side (at W35)</b>  |           |       |                        |            |            |
| Volume flow min. (A7) / max. (A-7) / nominal (A2)                              |           | m³/h  | 1.2                    | 4.2        | 1.5        |
| Pressure drop via heat pump  |           | kPa   | 4.0                    | 39.0       | 5.0        |
| Free compression max.  |           | kPa   | 96.0                   | 20.0       | 94.0       |
| Medium water   |           | %     | 100.0                  |            |            |
| Built-on heating pump  |           | -     | UPML 25 - 105          |            |            |
| <b>Dimensions/connections/miscellaneous - Outdoor unit</b>                     |           |       |                        |            |            |
| Dimensions   | D x W x H | mm    | 900 * 2550 * 1300      |            |            |
| Total weight   |           | kg    | 400.0                  |            |            |
| Heat source connection   | AG        | Inch  | 1 1/2"                 |            |            |

# Tecnical data

## Aeroheat Inverta AH SCI 25a

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### Aeroheat AH SCI 25a

#### Dimensions/connections/miscellaneous - Indoor unit

|                                    |           |        |                  |
|------------------------------------|-----------|--------|------------------|
| Dimensions                         | T x B x H | mm     | 695 * 756 * 1803 |
| Total weight                       |           | kg     | 255.0            |
| Heating circuit connection         | AG        | Inch   | 1 1/2"           |
| Heat source connection             | AG        | Insch  | 1 1/2"           |
| Cooling agent / filling quantity   |           | - / kg | R-32 / 1.8       |
| GWP / CO <sub>2</sub> e            |           | - / t  | 675 / 1.25       |
| Refrigeration oil filling quantity |           | l      | FW68S / 2.3      |

#### Electrical data

|  |  |    |                              |
|--|--|----|------------------------------|
| Operating voltage power                            |  |    | 3L / N / PE / 3*400V / 50 Hz |
| External fuse protection unit                      |  | AT | 40 °C                        |
| External fuse protection without circulation pumps |  | AT | 40.0                         |
| Max. machine current                               |  | A  | 36.0                         |
| Starting current (soft start speed control)        |  | A  | 20.0                         |
| Protection class                                   |  | IP | IP 21                        |
| Max. power consumption pump                        |  | kW | 0.9                          |
| Max. power consumption compressor                  |  | kW | 13.0                         |
| Max. power consumption total                       |  | kW | 13.9                         |

- 1) Energy class for climate area medium / space heating low temperature application 2)  
 4) Continuous operation and design area max. +55°C;  
 5) 60 ° C with a maximum return air temperature of 50 ° C and reduced performance range  
 6) Max. current consumption per pump 2A

Observe local conditions and regulations.

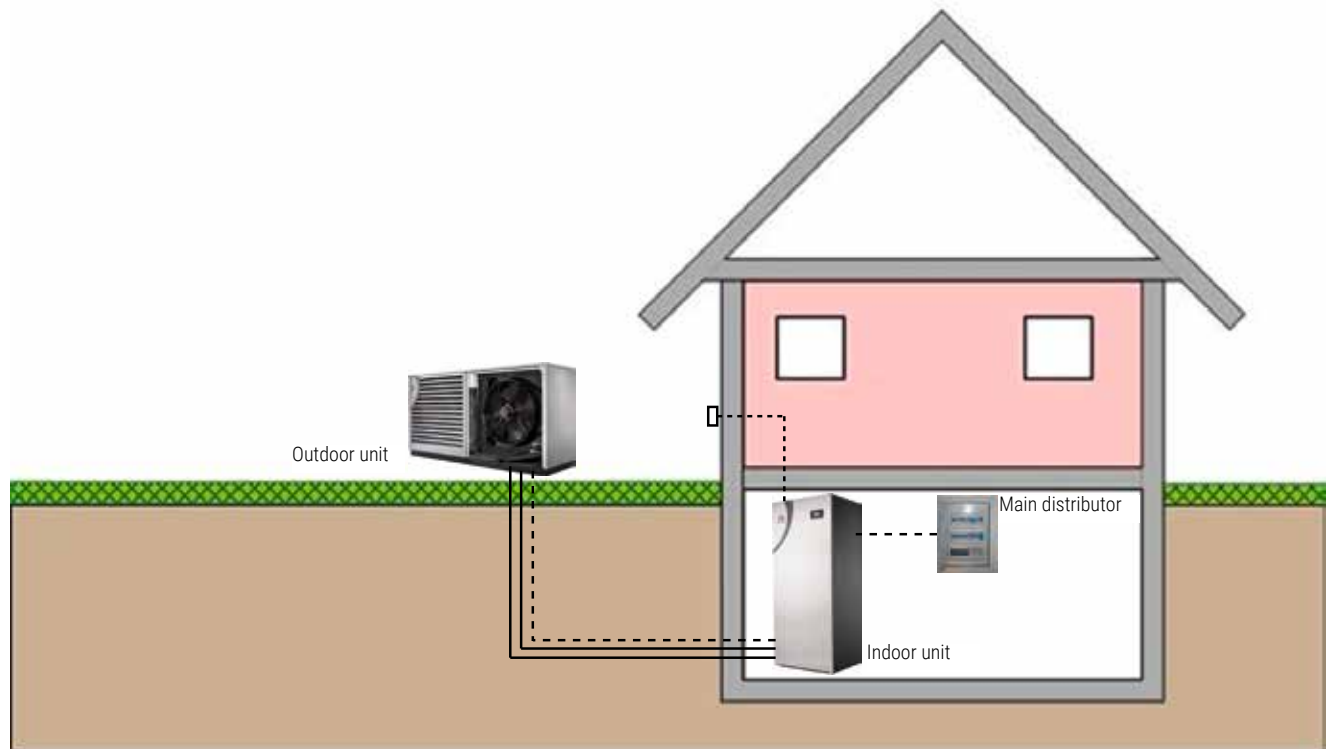
# Dimension drawings

## Aeroheat Inverta AH SCI 25a

### System overview

#### Example

The heat pump consists of a split outdoor unit and an indoor unit which is installed in the boiler room. The connection to the heating system is made via the flow and return of the heat utilisation side of the heat pump.



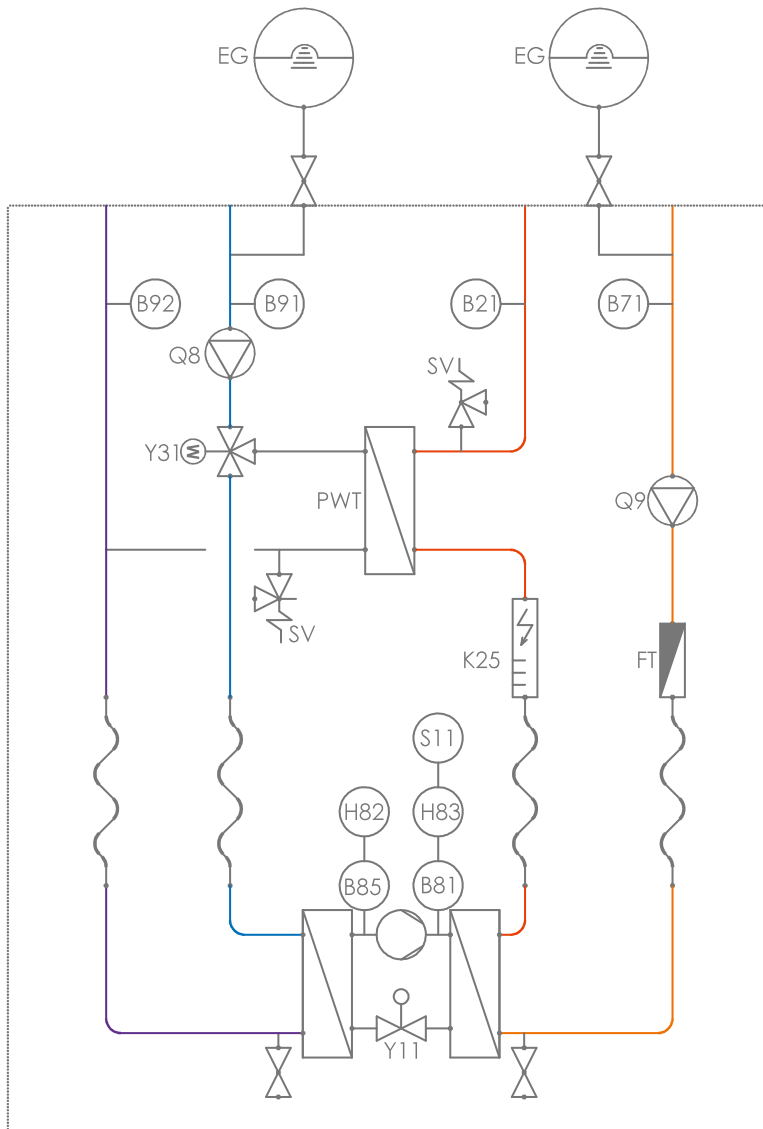
Distance indoor unit - outdoor unit

Max 25 meters  
(Cable, pressure loss connecting lines)

# Dimension drawings

## Aeroheat Inverta AH SCI 25a

### Hydraulic diagram indoor unit



Expansion vessels to be supplied on site.

#### Legend

B21 Flow temperature sensor heat pump  
 B71 Return temperature sensor heat pump  
 B85 Hot gas temperature sensor  
 B91 Brine circuit inlet temperature sensor  
 B92 Brine circuit outlet temperature sensor

H82 ND transmitter  
 H83 HD transmitter

K25 Emergency heating in advance

Q8 Source pump  
 Q9 Condensate pump

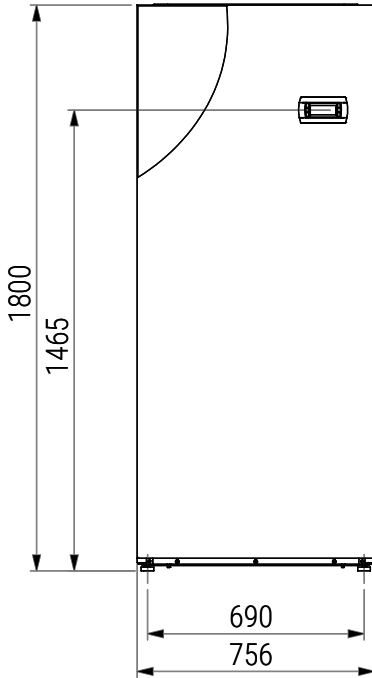
S11 HD pressostat

Y11 Electric expansion valve  
 Y21 Defrost switch valve

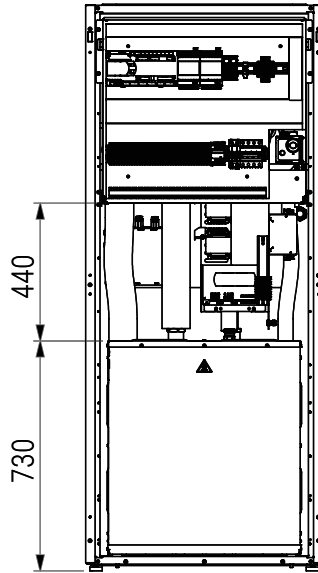
# Dimension drawings Aeroheat Inverta AH SCI 25a

Indoor unit

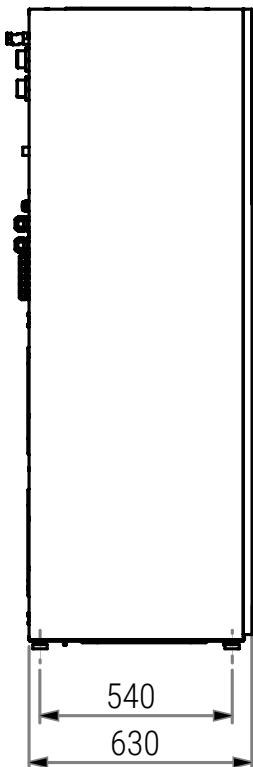
Front (with front)



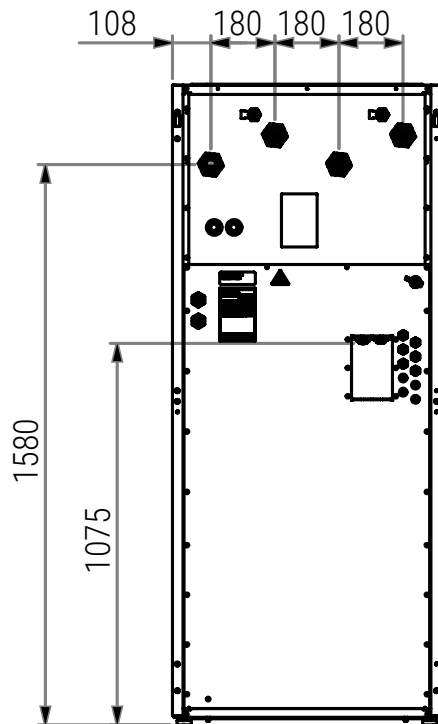
Front (without front)



Left side



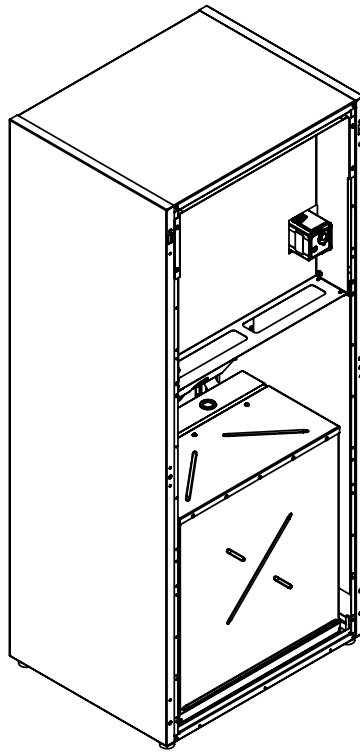
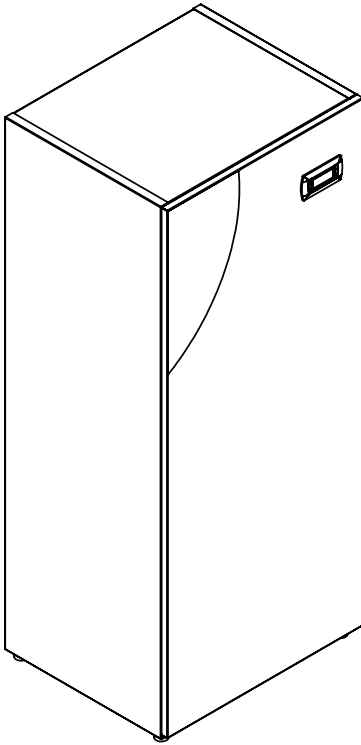
Back side



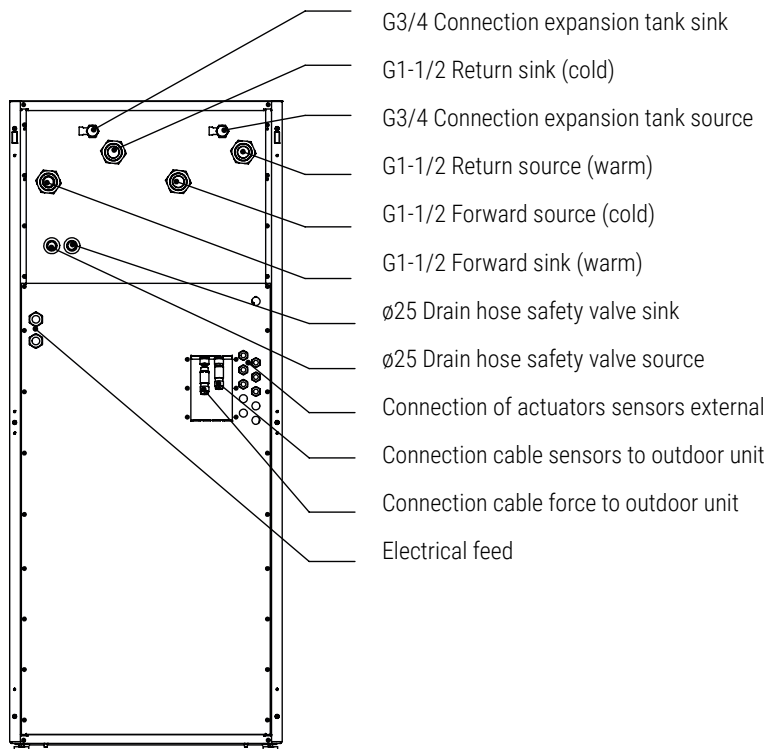
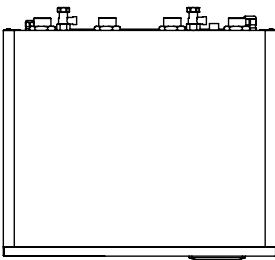


# Dimension drawings Aeroheat Inverta AH SCI 25a

Indoor unit



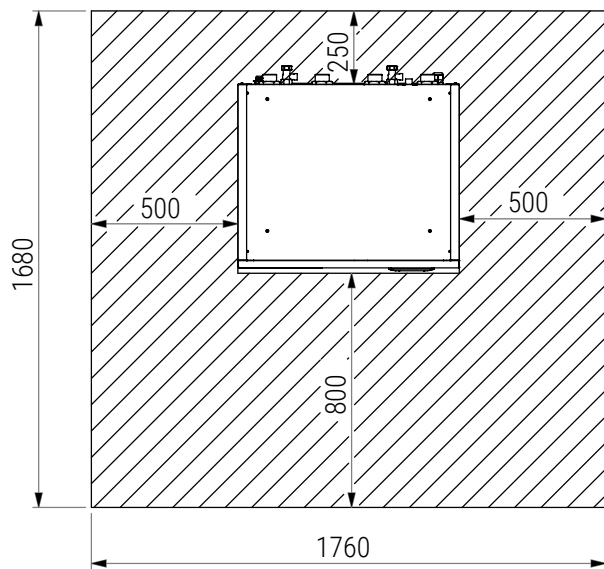
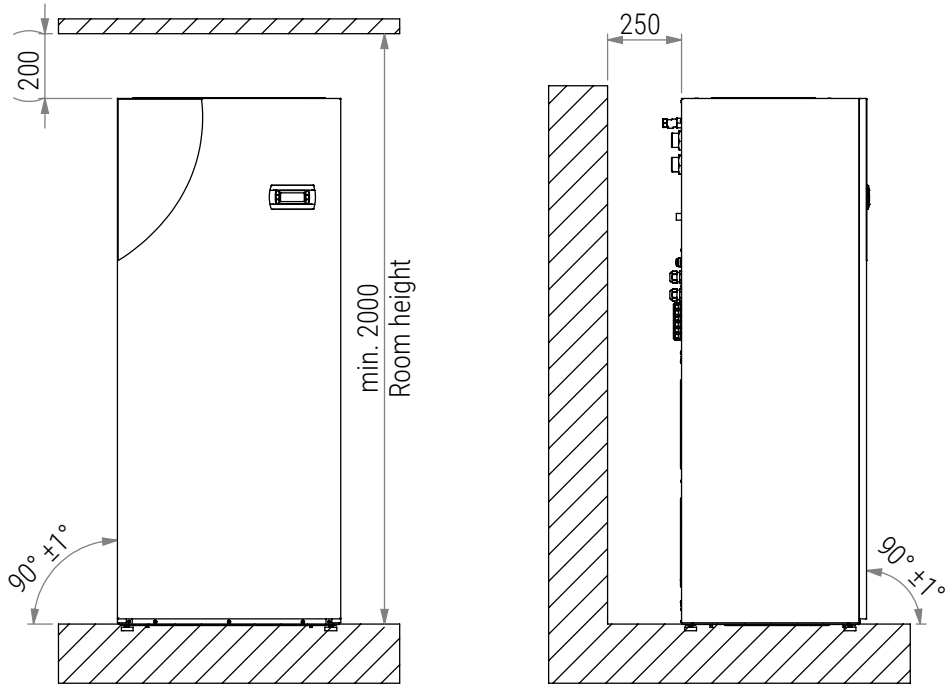
Layout



# Dimension drawings Aeroheat Inverta AH SCI 25a

## Installation instructions

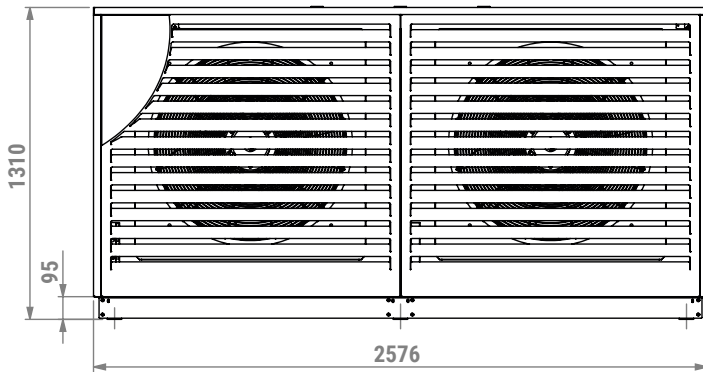
Recommended free space around the product



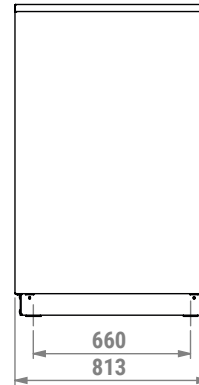
# Dimension drawings Aeroheat Inverta AH SCI 25a

Outdoor unit

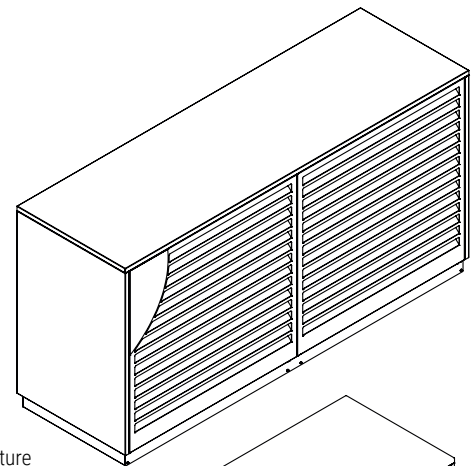
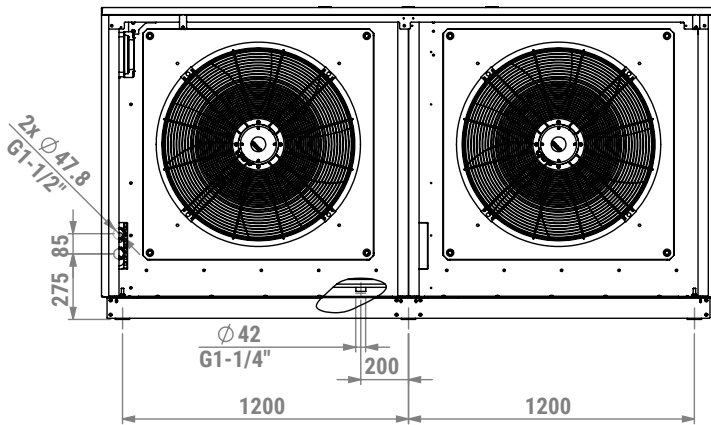
Front (with front)



Left side



Front (without front)

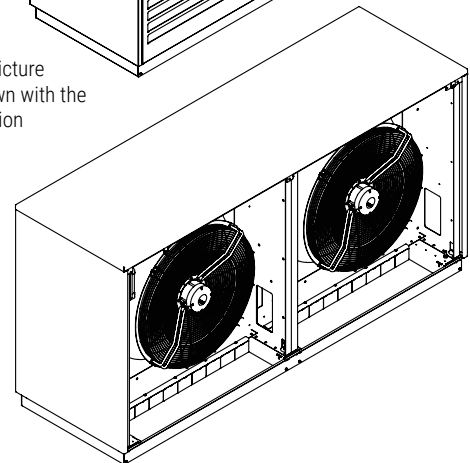
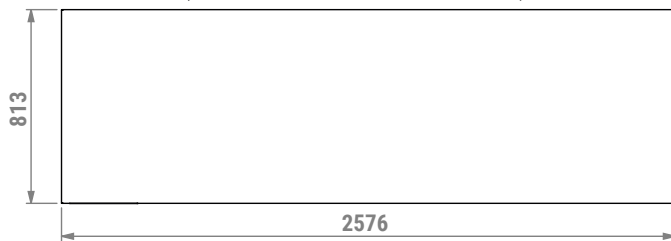


Air direction

Air direction

Attention: The front picture (without front) is shown with the condensation pan option

Layout

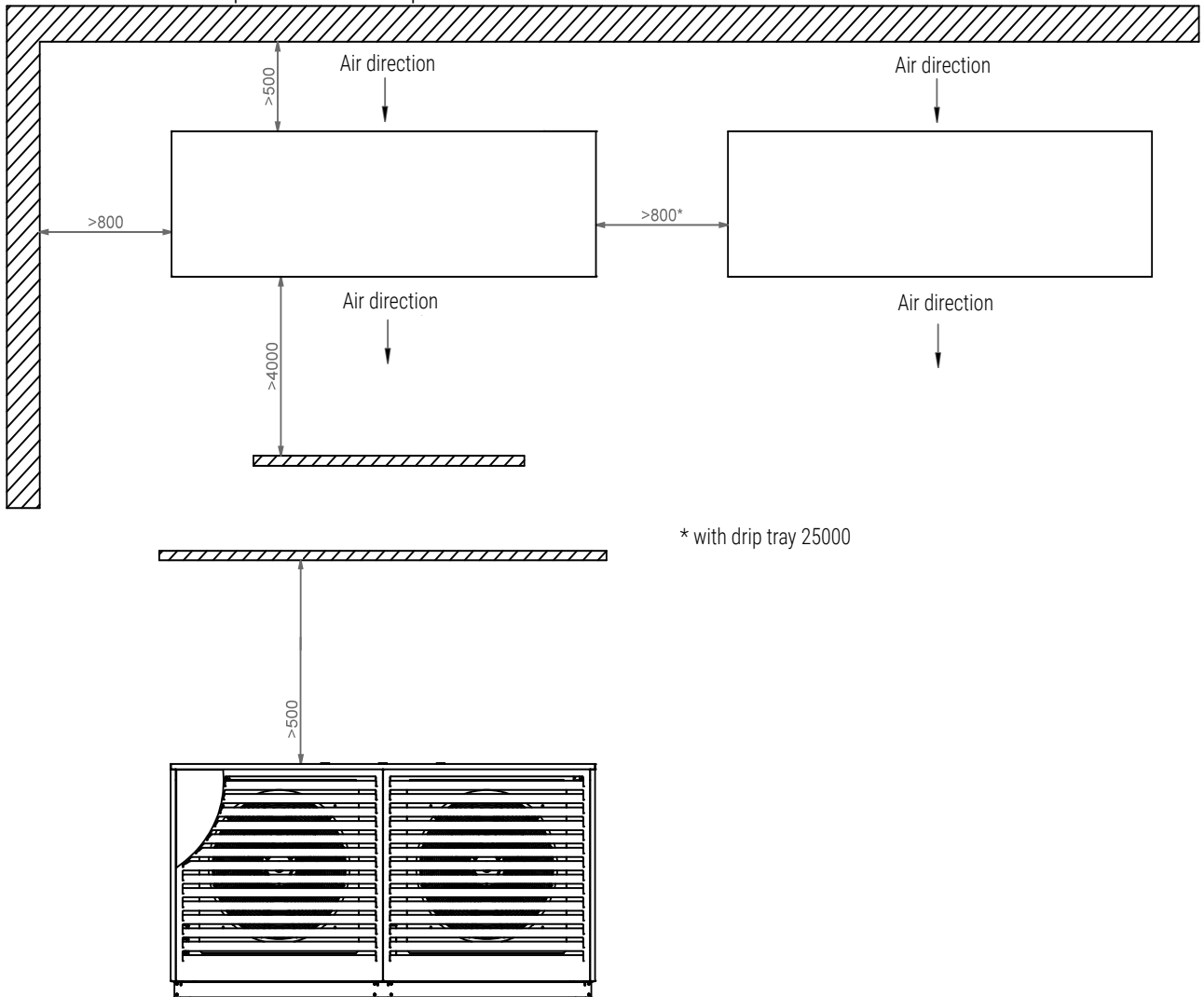


# Dimension drawings Aeroheat Inverta AH SCI 25a

## Installation instructions

Recommended free space around the product

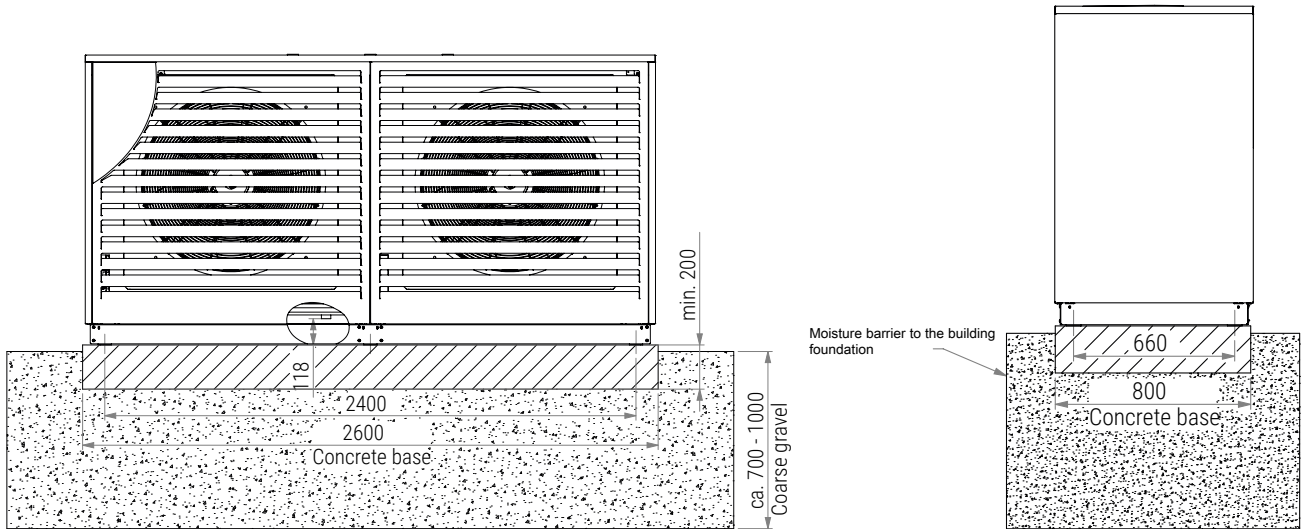
Recommended free space around the product



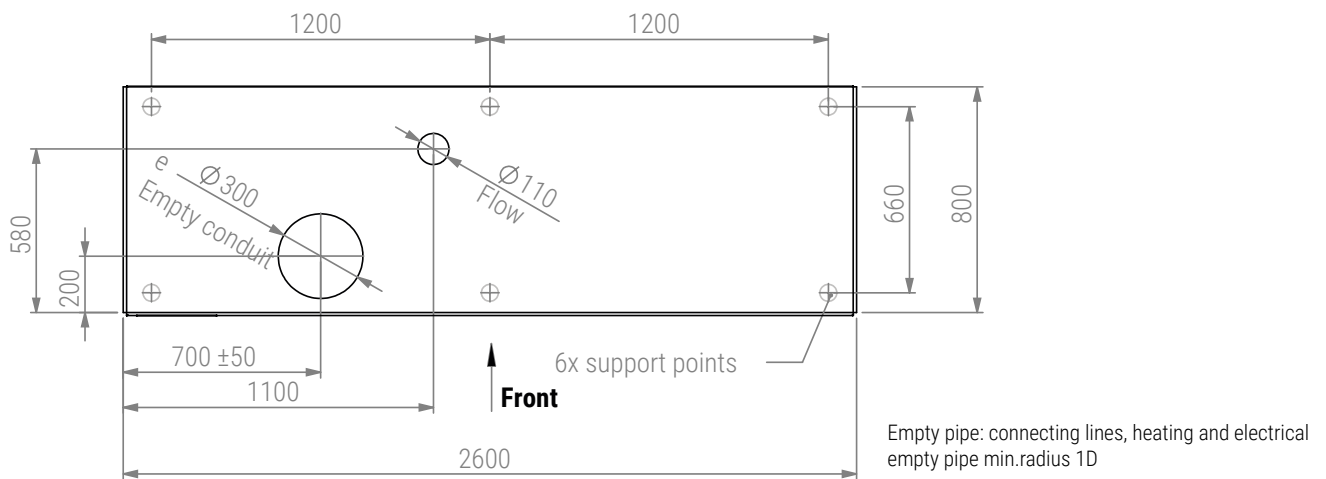
# Dimension drawings Aeroheat Inverta AH SCI 25a

## Base plan outdoor unit

Base variant 1

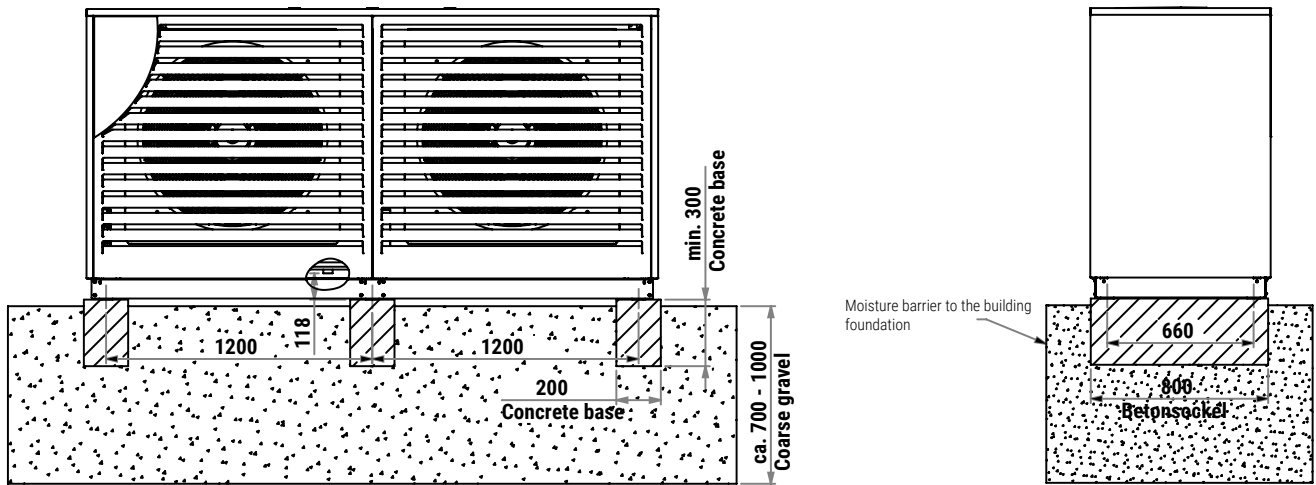


Layout variant 1

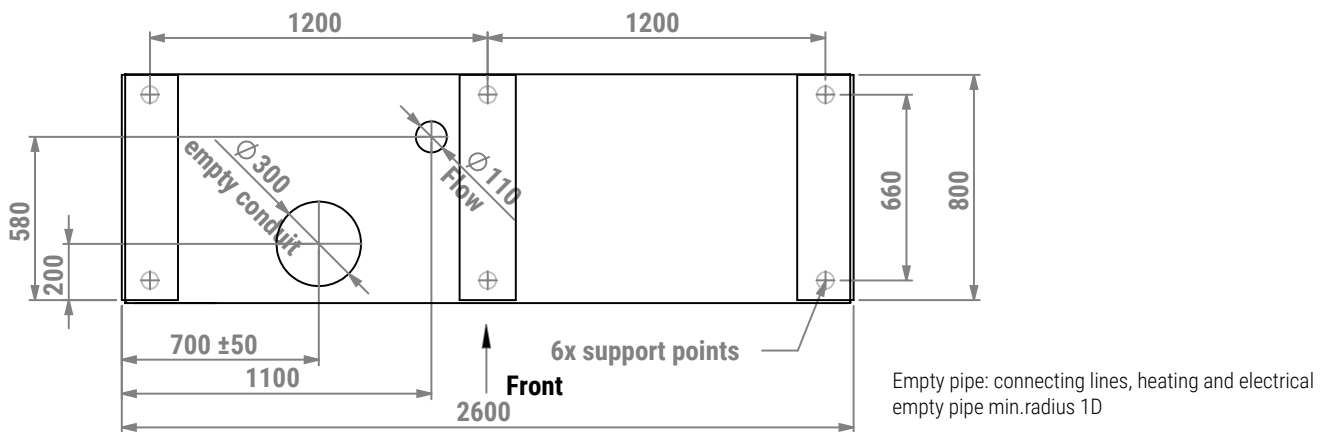


# Dimension drawings Aeroheat Inverta AH SCI 25a

Base variant 2



Layout variant 2





# Power curves

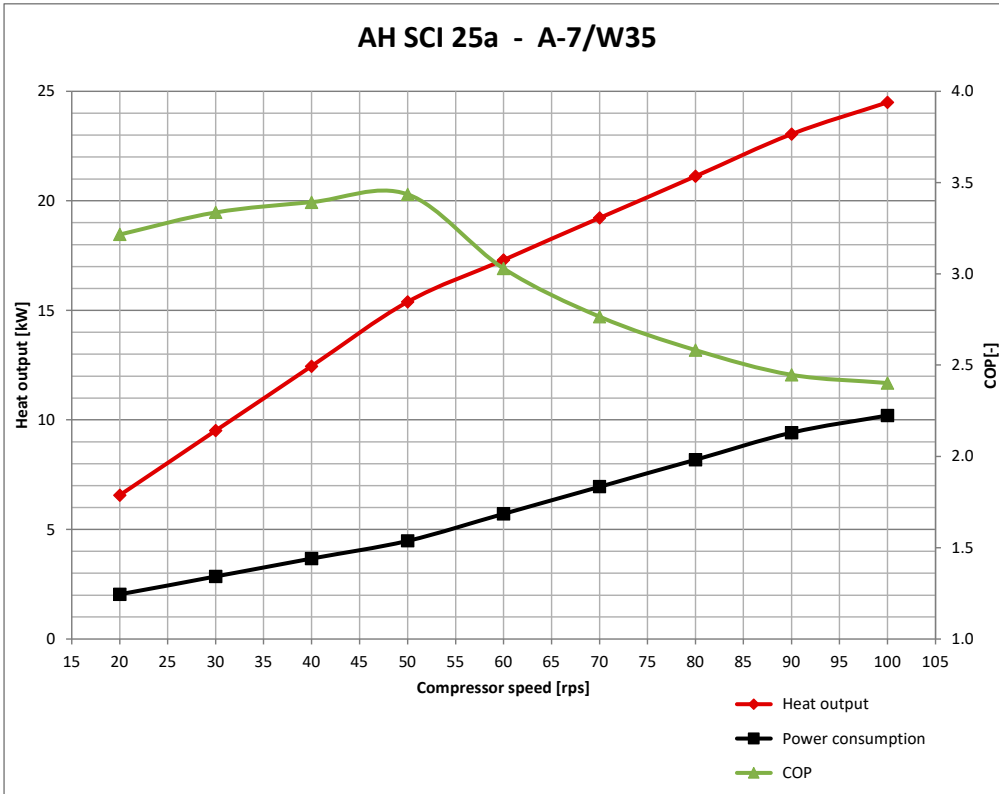
## Aeroheat Inverta AH SCI 25a

Overview of services at W35

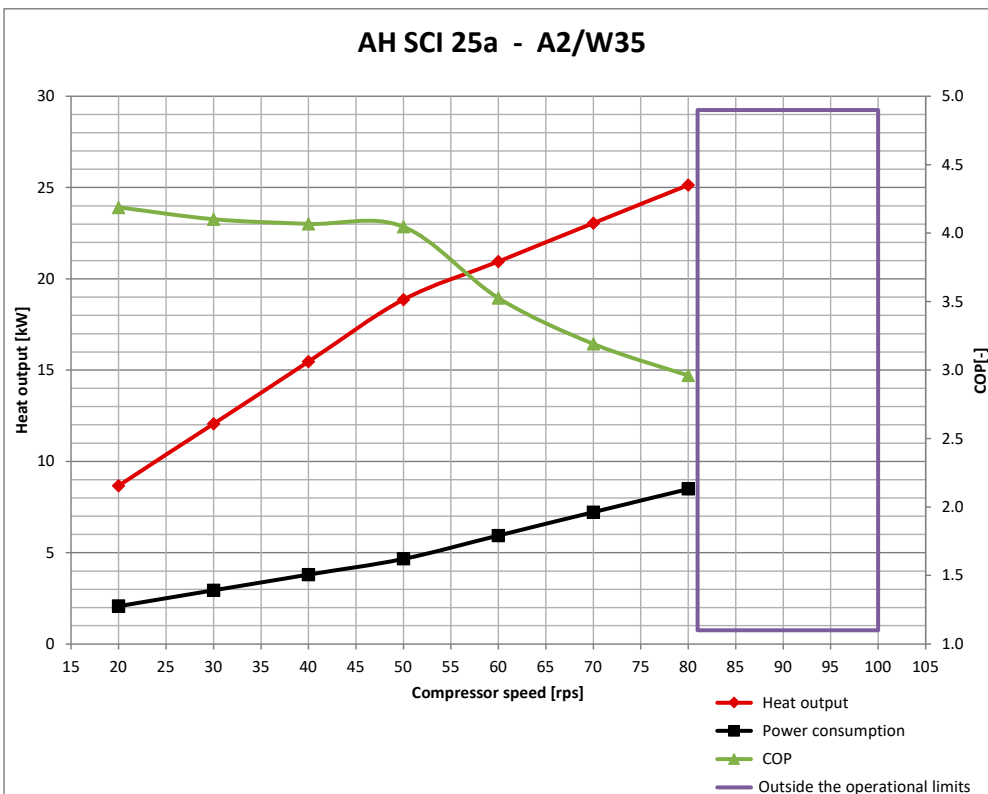
Volume flow source minimal / maximal / nominal  
 Volume flow heater minimal / maximal / nominal

2.1 / 4.9 / 3.1 m<sup>3</sup>/h  
 0.9 / 4.2 / 1.5 m<sup>3</sup>/h

Performance specifications as per EN 14511  
 Heat output in kW at A-7 / W35



Heat output in kW at A2 / W35

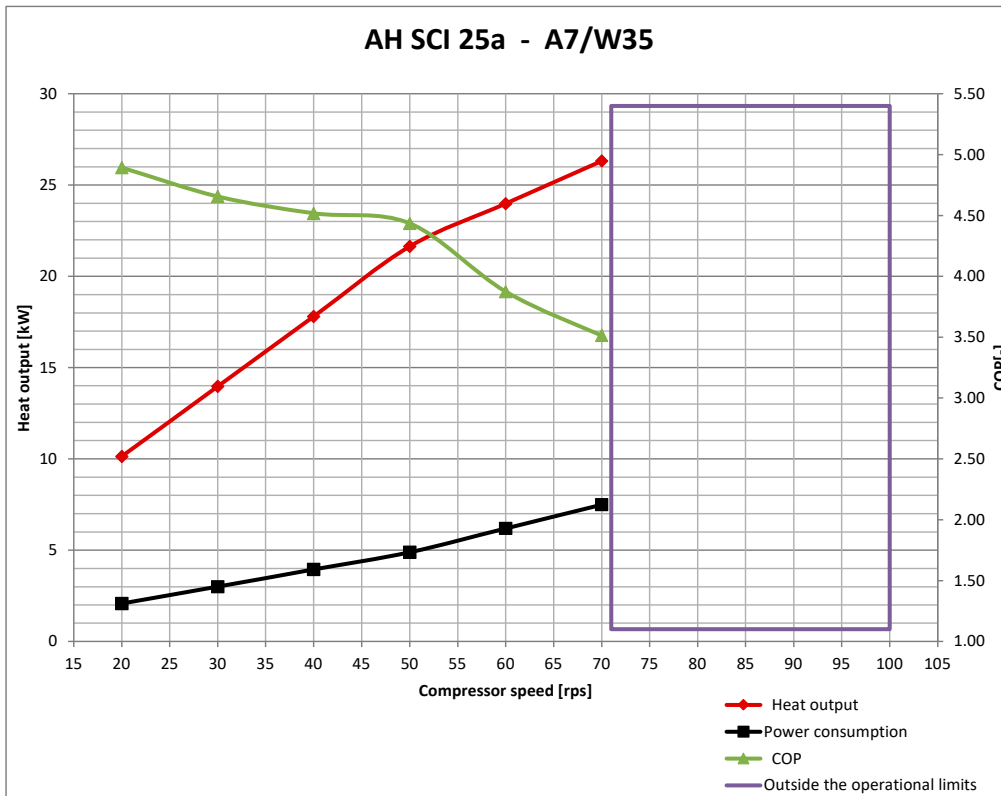




# Power curves

## Aeroheat Inverta AH SCI 25a

Heat output in kW at A7 / W35



Heat output in kW at A10 / W35



# Power curves

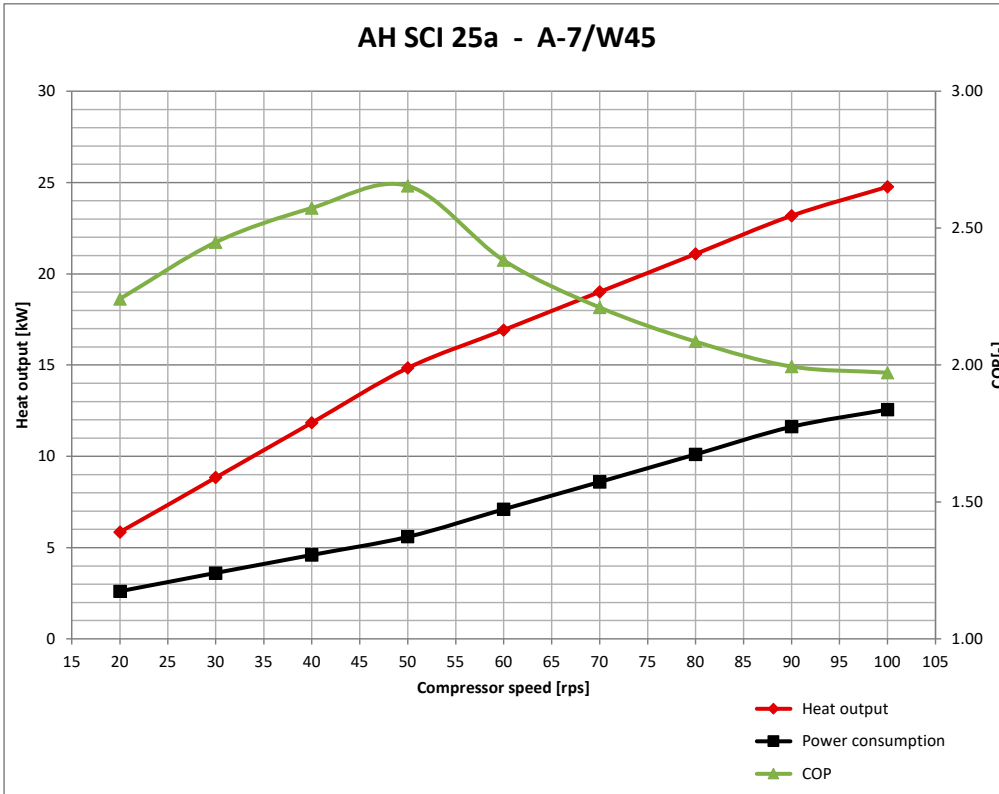
## Aeroheat Inverta AH SCI 25a

Overview of services at W45

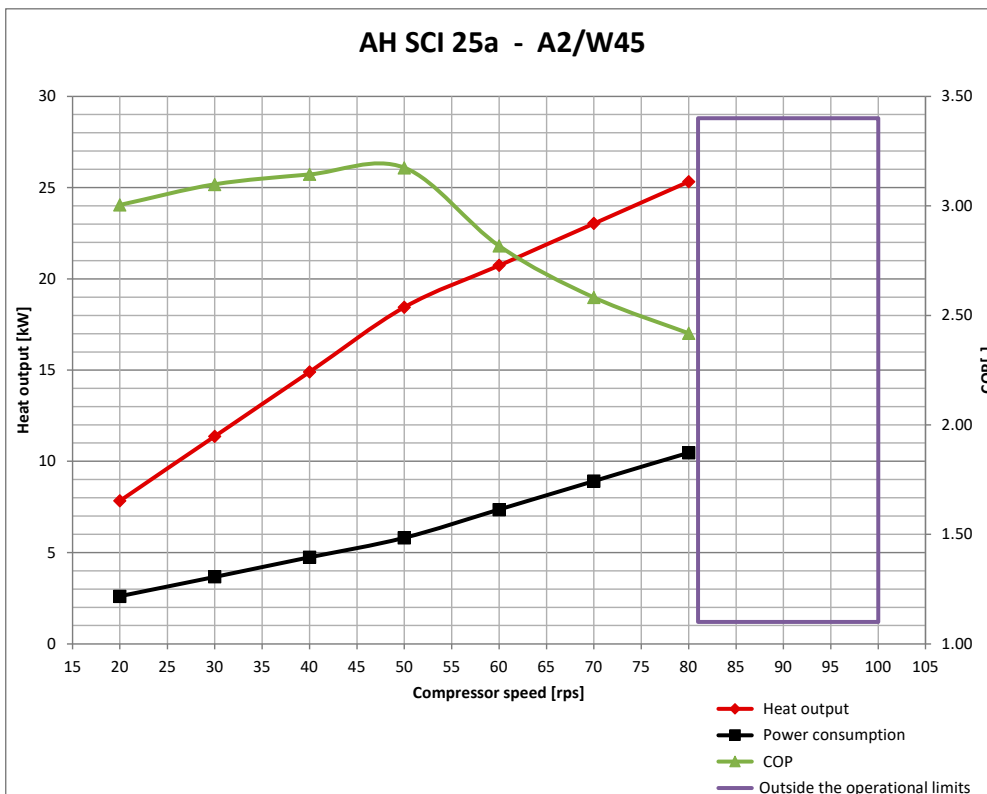
Volume flow source minimal / maximal / nominal  
 Volume flow heater minimal / maximal / nominal

1.7 / 4.2 / 2.6 m<sup>3</sup>/h  
 0.8 / 4.3 / 1.4 m<sup>3</sup>/h

Performance specifications as per EN 14511  
 Heat output in kW at A-7 / W45



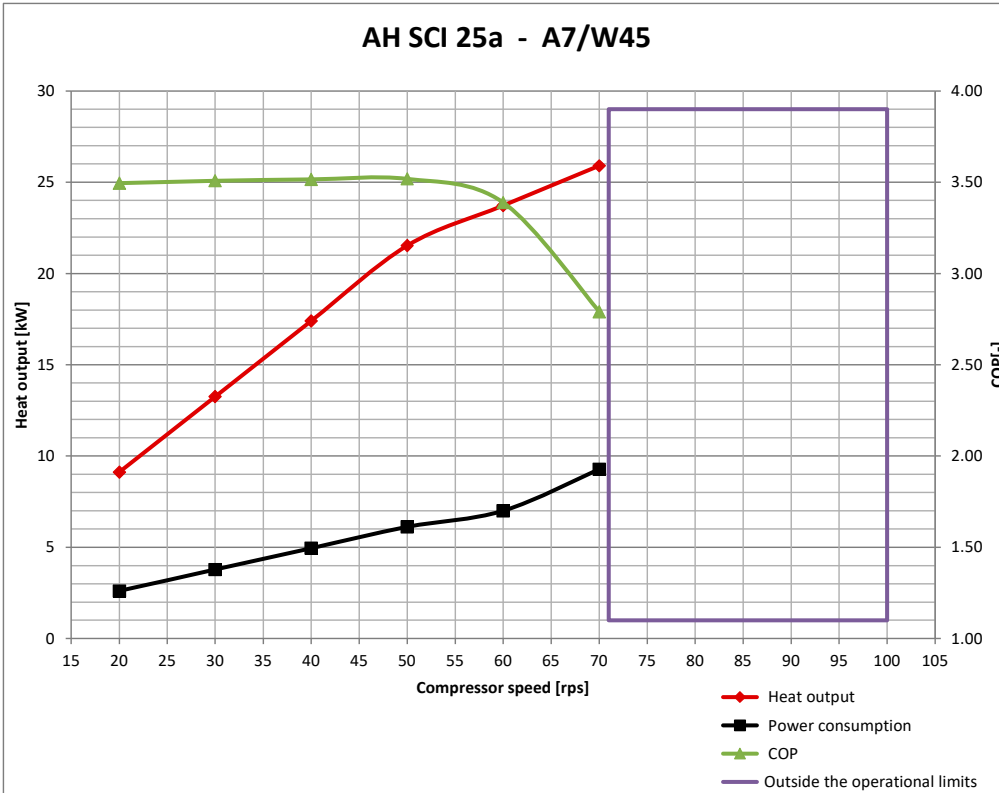
Heat output in kW at A2 / W45



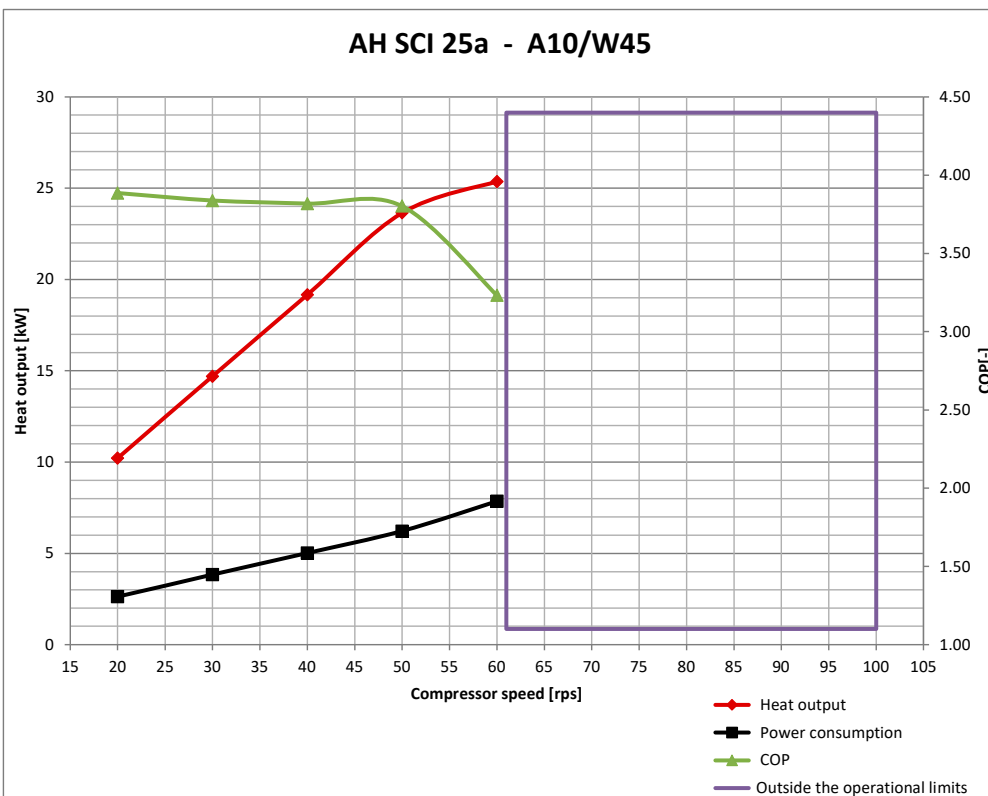
# Power curves

## Aeroheat Inverta AH SCI 25a

Heat output in kW at A7 / W45



Heat output in kW at A10 / W45



# Power curves

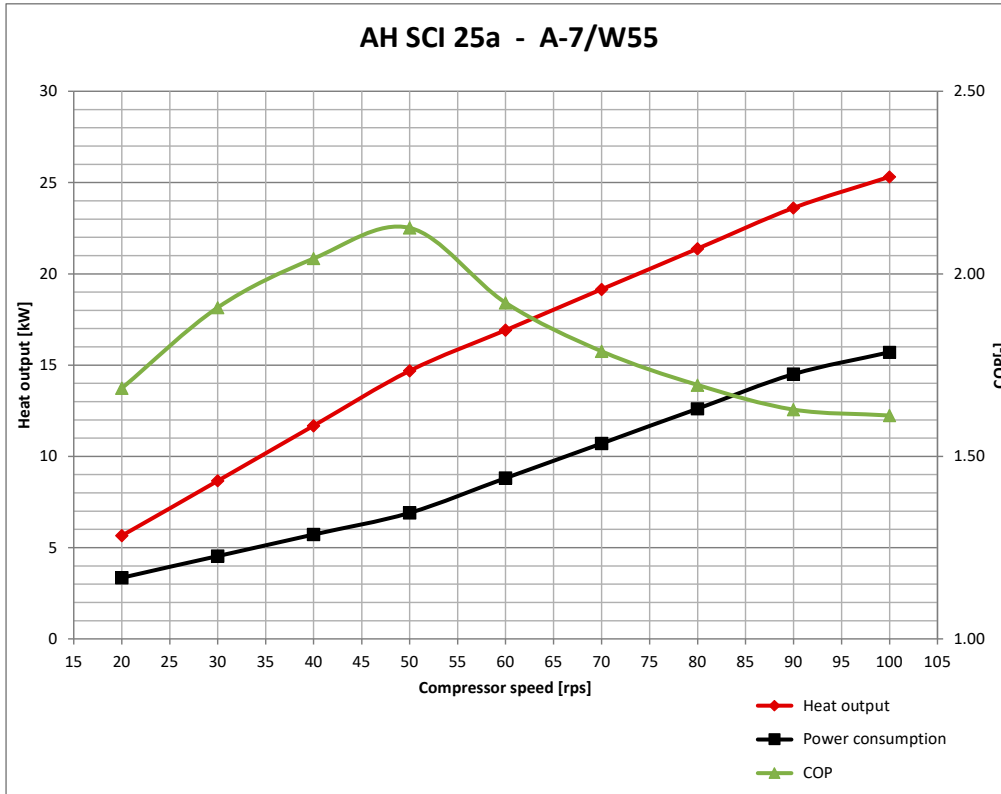
## Aeroheat Inverta AH SCI 25a

Overview of services at W55

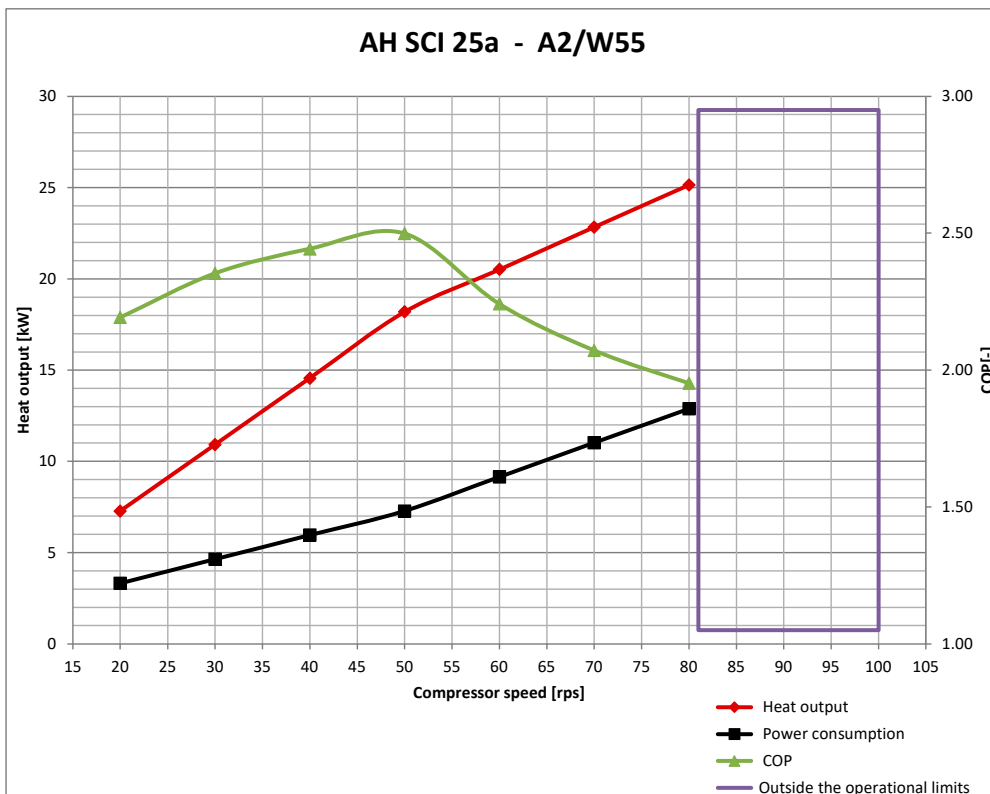
Volume flow source minimal / maximal / nominal  
 Volume flow heater minimal / maximal / nominal

1.3 / 3.3 / 2.1 m<sup>3</sup>/h  
 0.7 / 4.4 / 1.3 m<sup>3</sup>/h

Performance specifications as per EN 14511  
 Heat output in kW at A-7 / W55



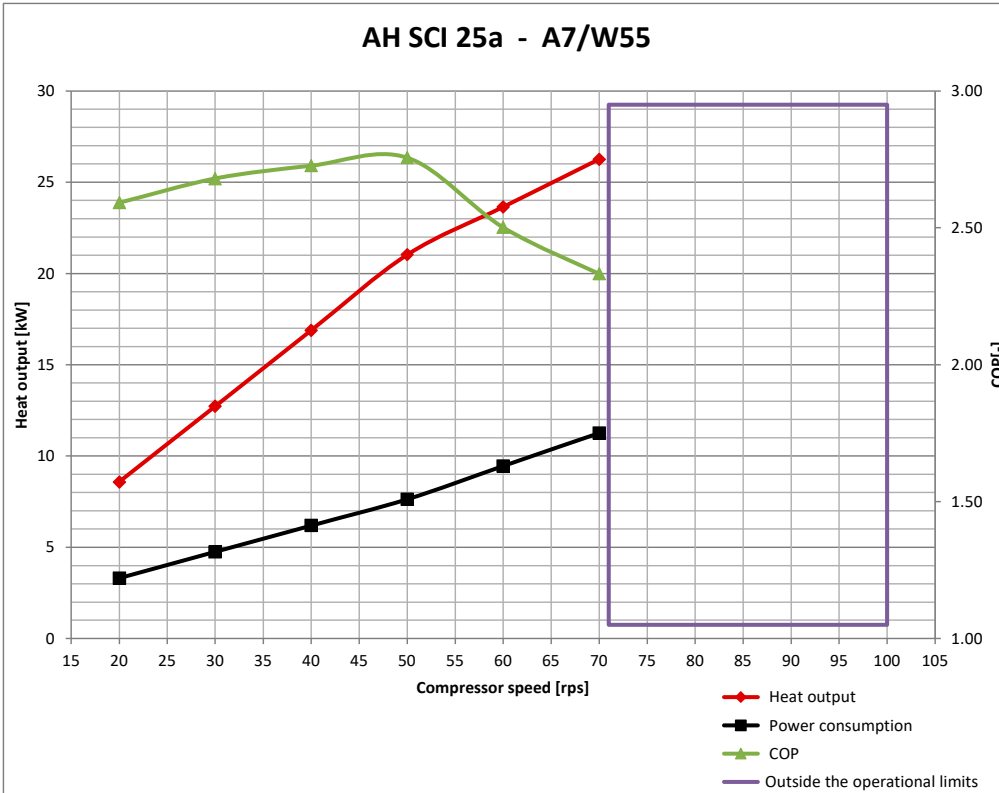
Heat output in kW at A2 / W55



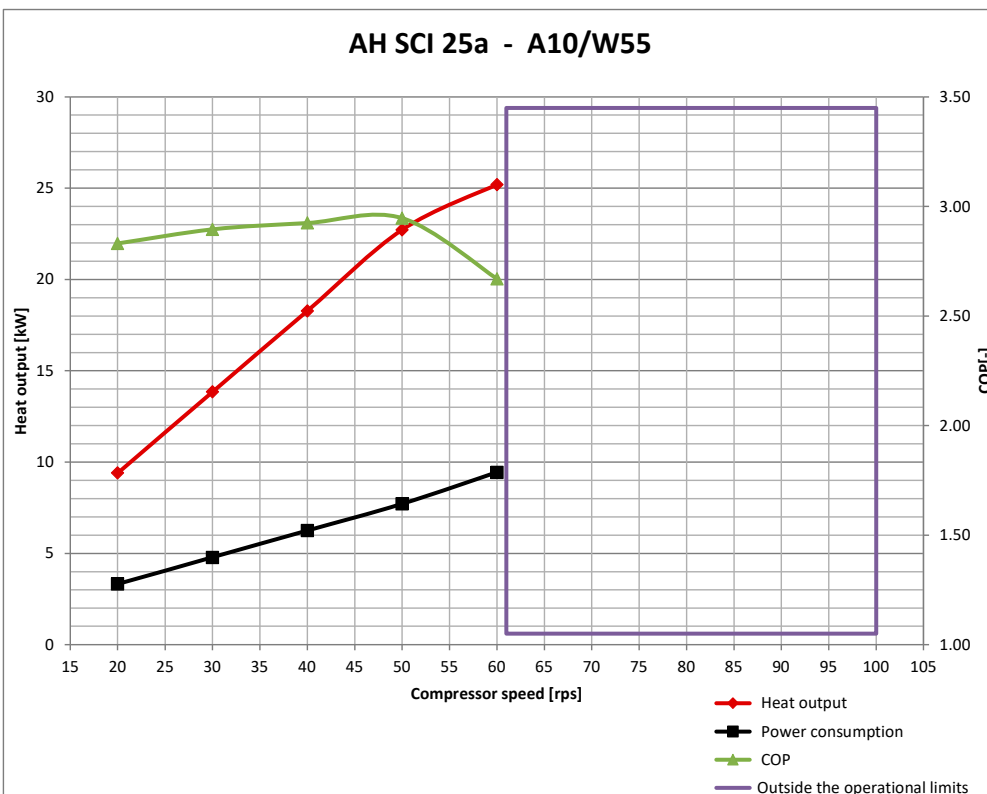
# Power curves

## Aeroheat Inverta AH SCI 25a

Heat output in kW at A7 / W55



Heat output in kW at A10 / W55



# Power curves

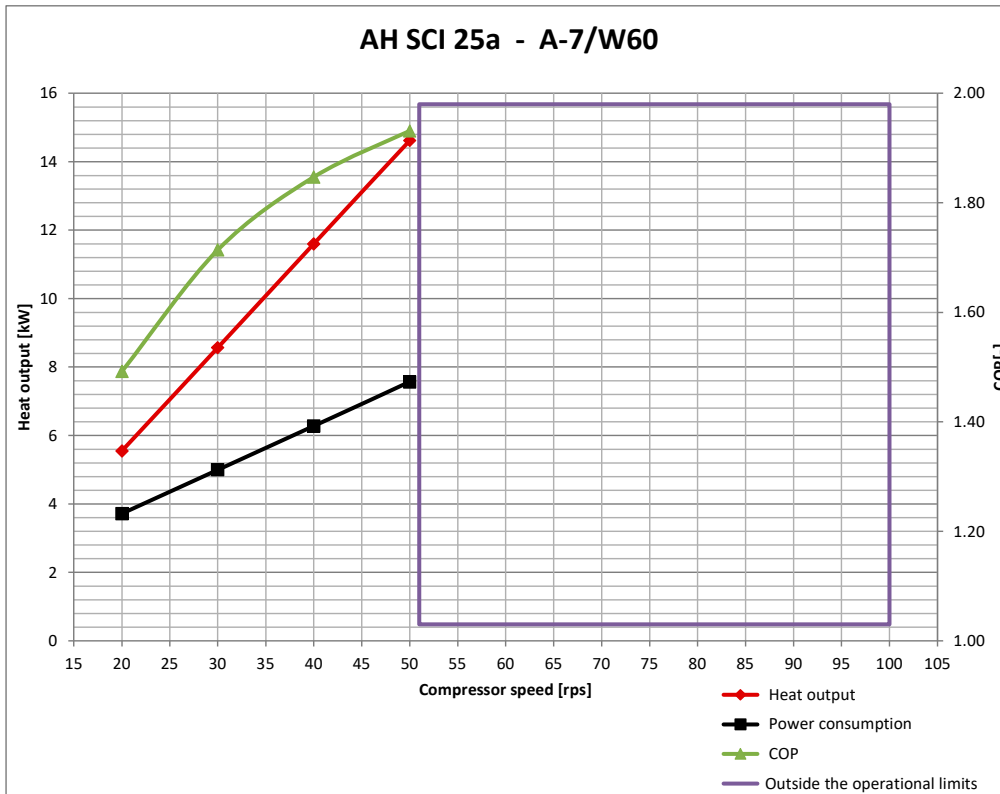
## Aeroheat Inverta AH SCI 25a

Overview of services at W60

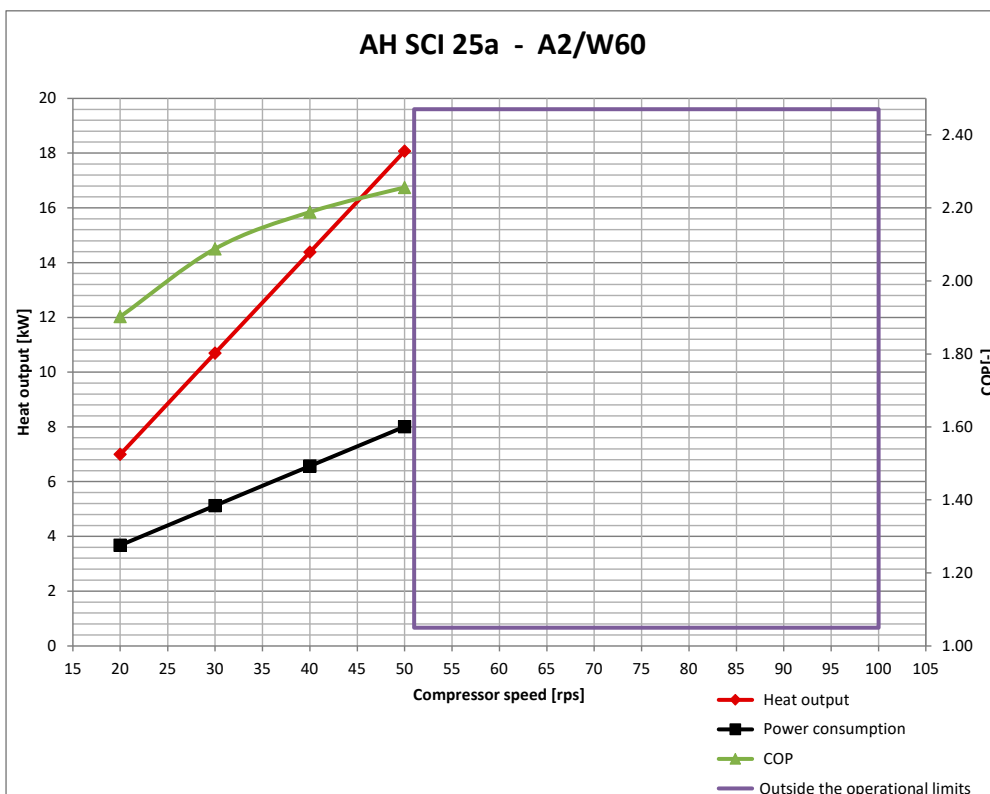
Volume flow source minimal / maximal / nominal  
 Volume flow heater minimal / maximal / nominal

1.2 / 2.4 / 1.9 m<sup>3</sup>/h  
 0.7 / 2.5 / 1.3 m<sup>3</sup>/h

Performance specifications as per EN 14511  
 Heat output in kW at A-7 / W60



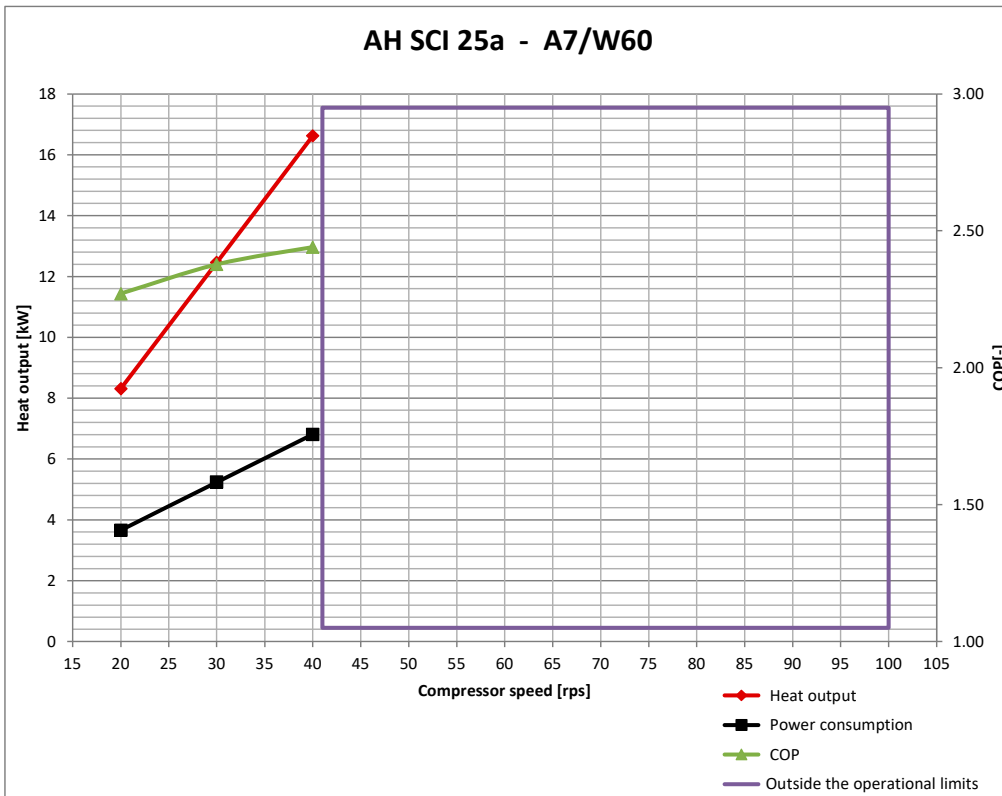
Heat output in kW at A2 / W60



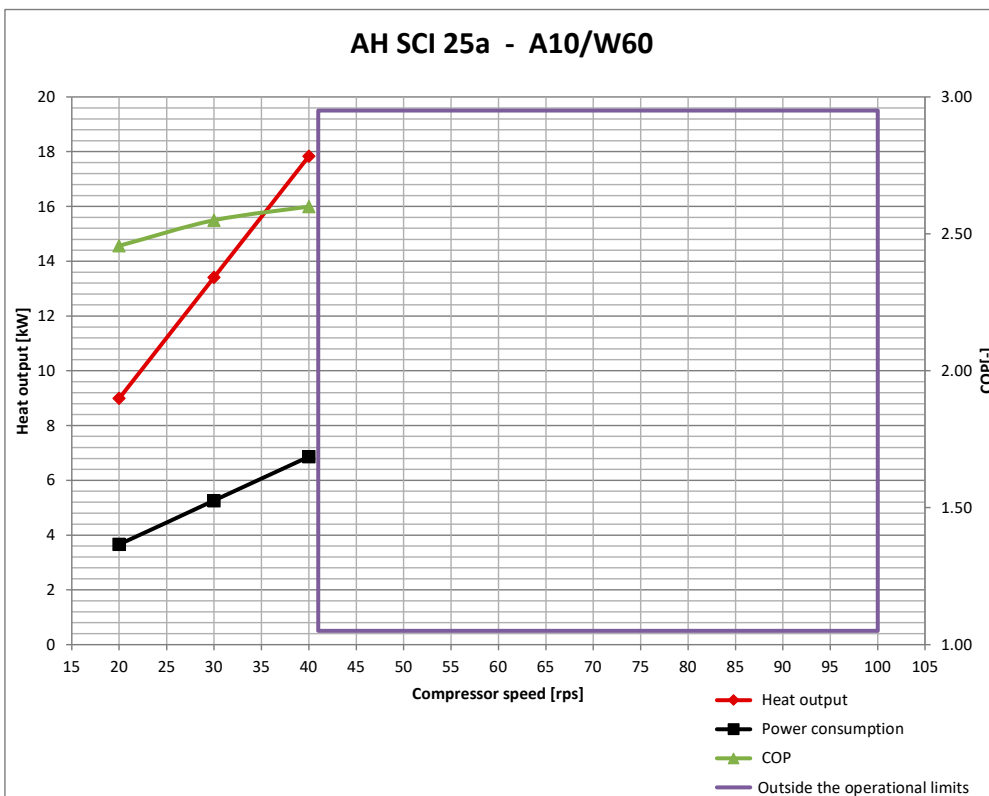
# Power curves

## Aeroheat Inverta AH SCI 25a

Heat output in kW at A7 / W60

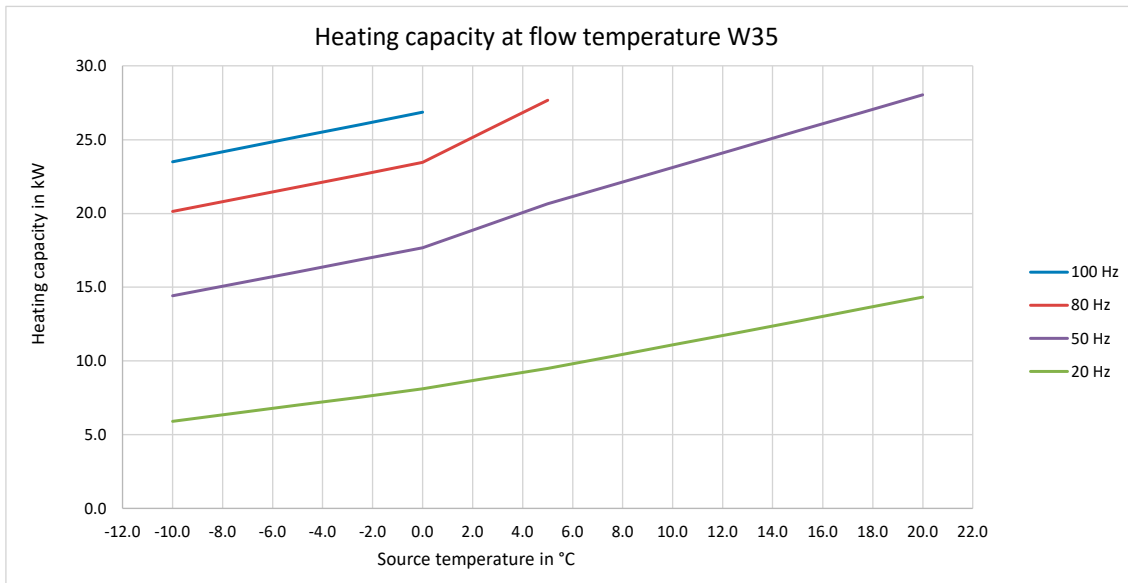


Heat output in kW at A10 / W60

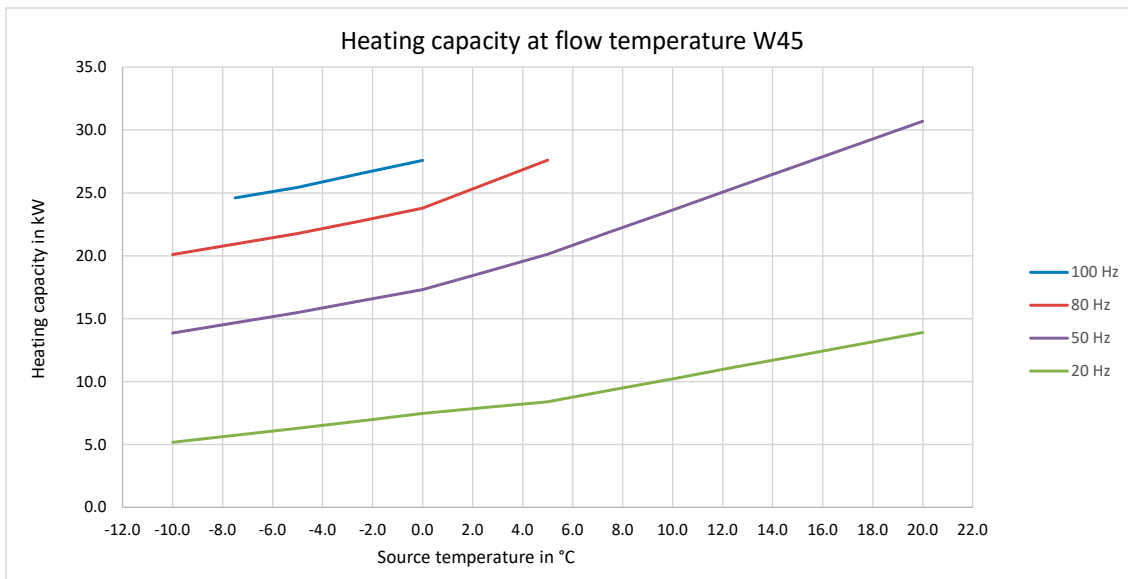


# Heat output Aeroheat Inverta AH SCI 25a

## Heat output at flow temperature W35



## Heat output at flow temperature W45

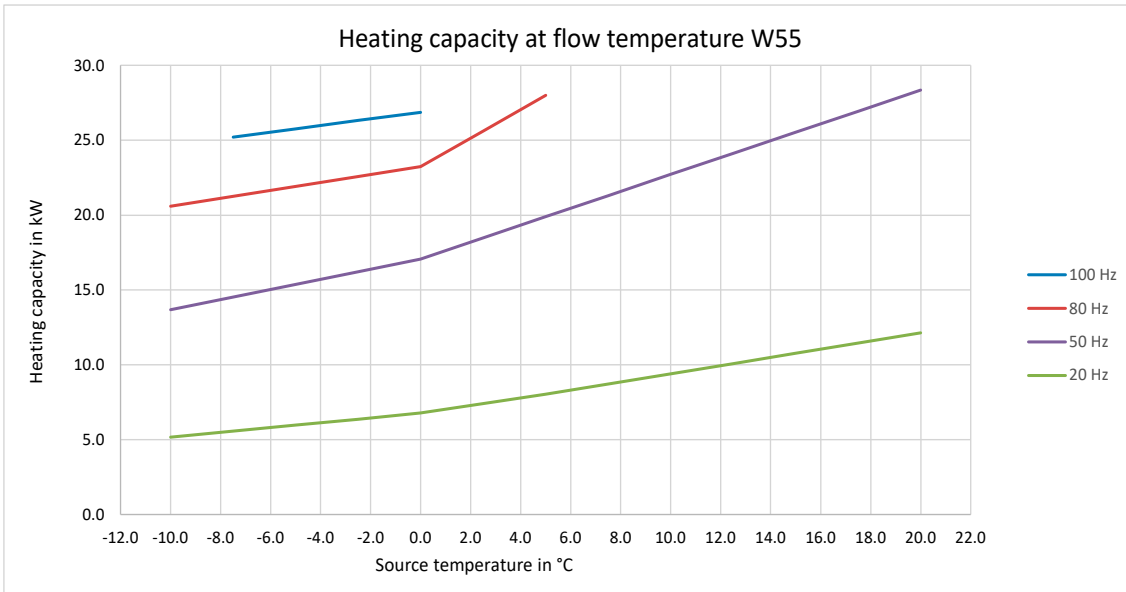




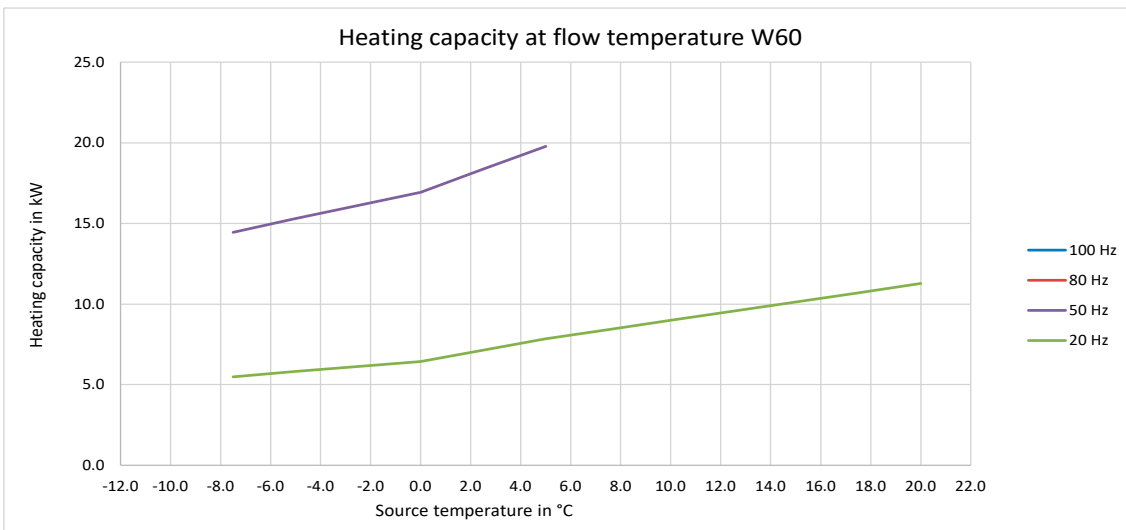
# Heat output

## Aeroheat Inverta AH SCI 25a

### Heat output at flow temperature W55

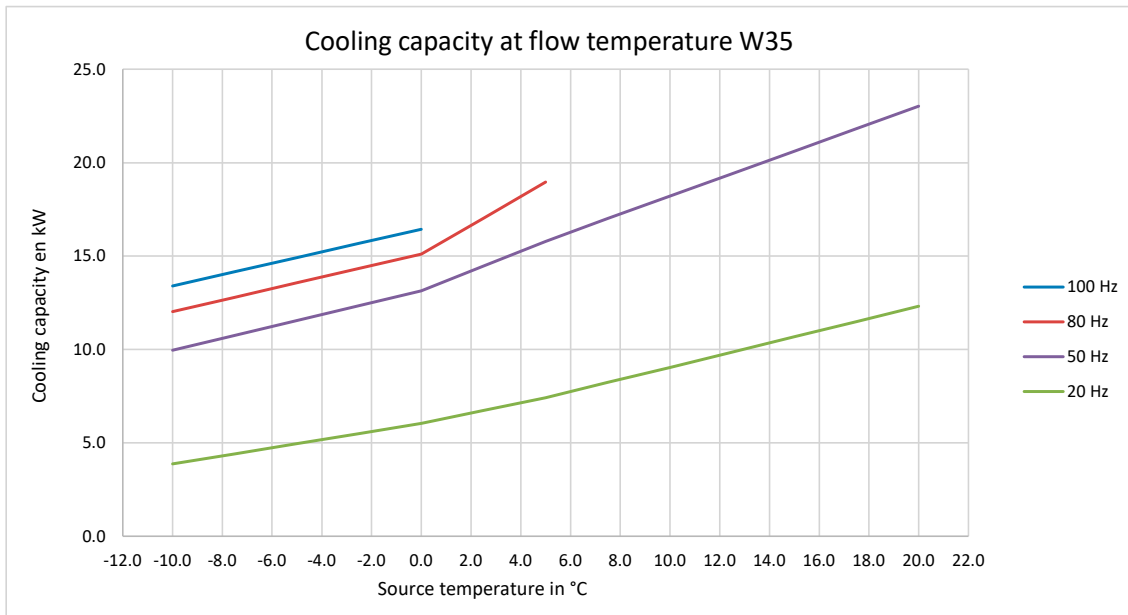


### Heat output at flow temperature W60

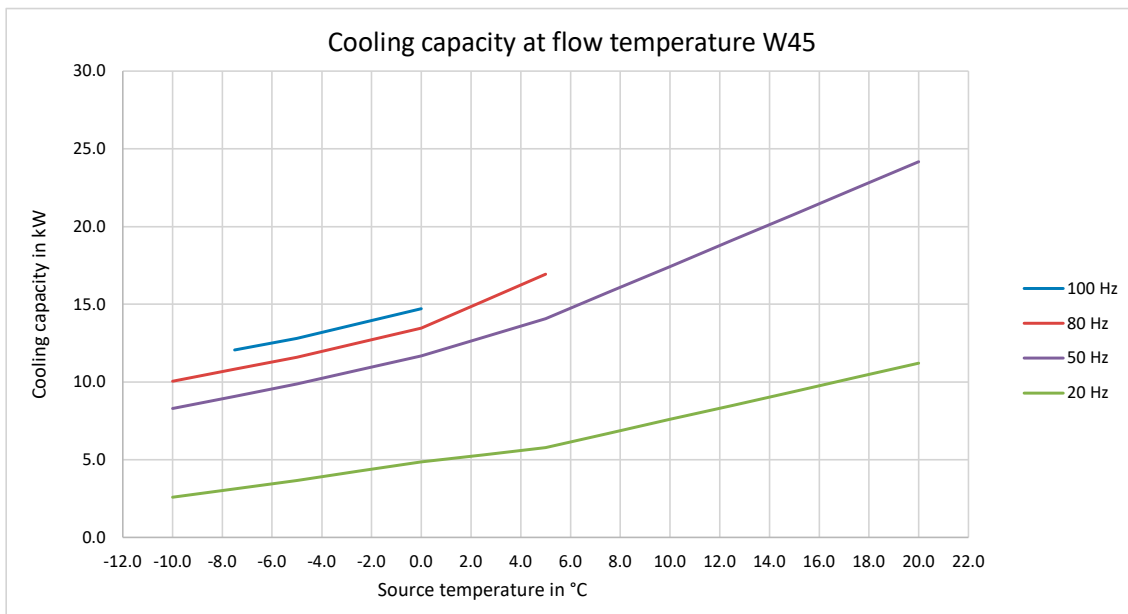


# Cooling capacity Aeroheat Inverta AH SCI 25a

## Cooling capacity at flow temperature W35

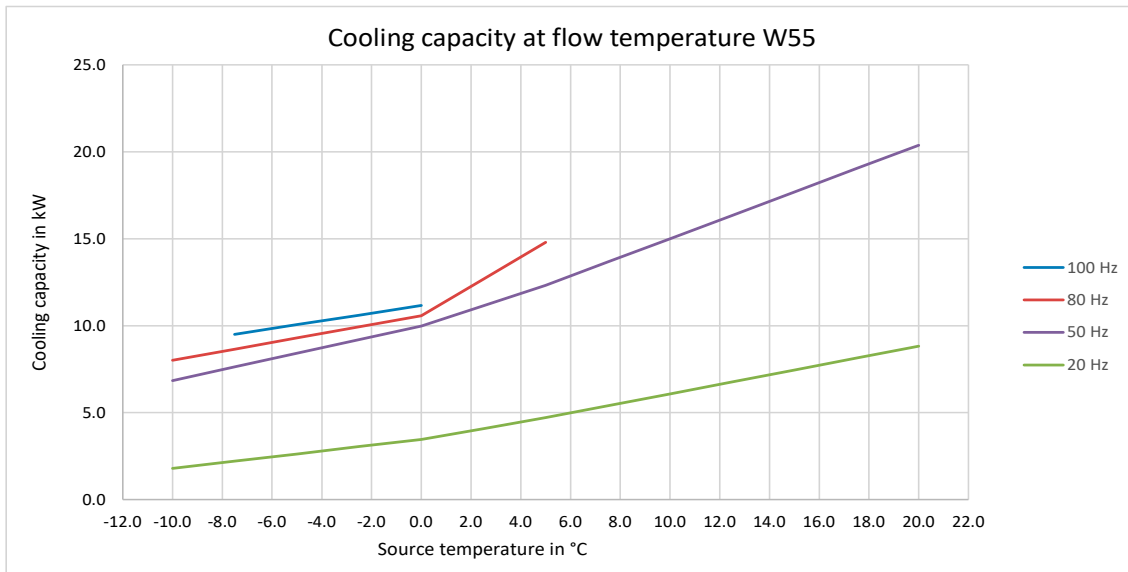


## Cooling capacity at flow temperature W45

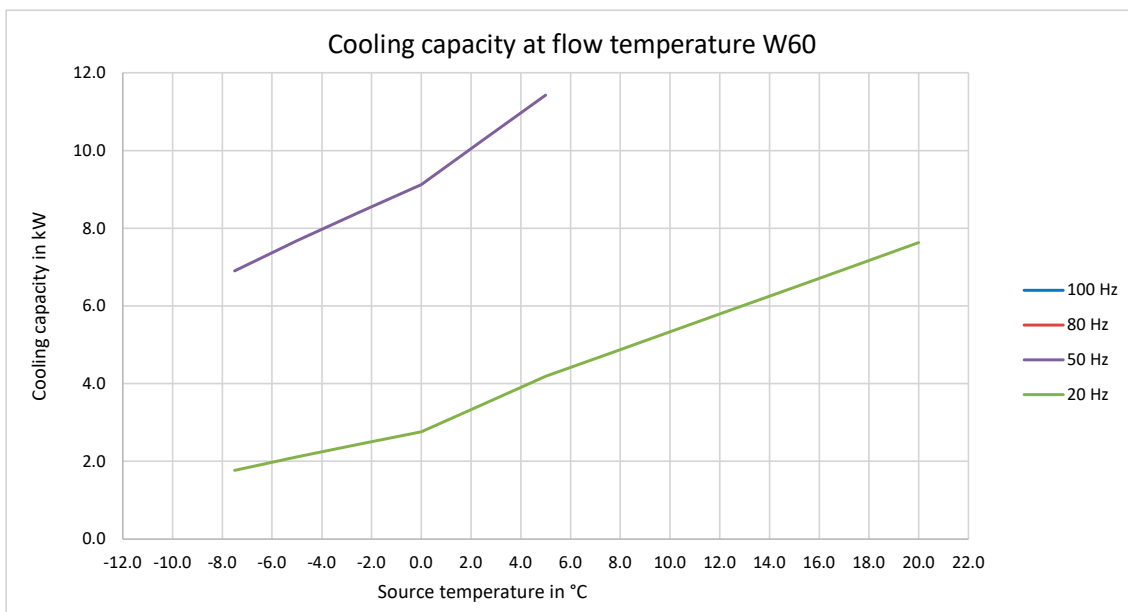


# Cooling capacity Aeroheat Inverta AH SCI 25a

## Cooling capacity at flow temperature W55

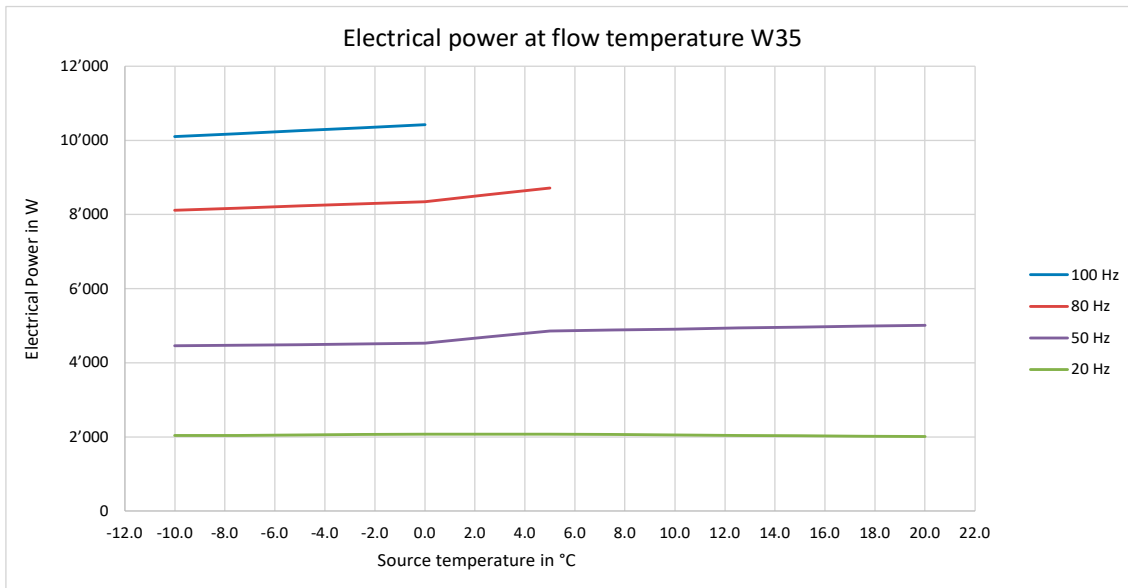


## Cooling capacity at flow temperature W60

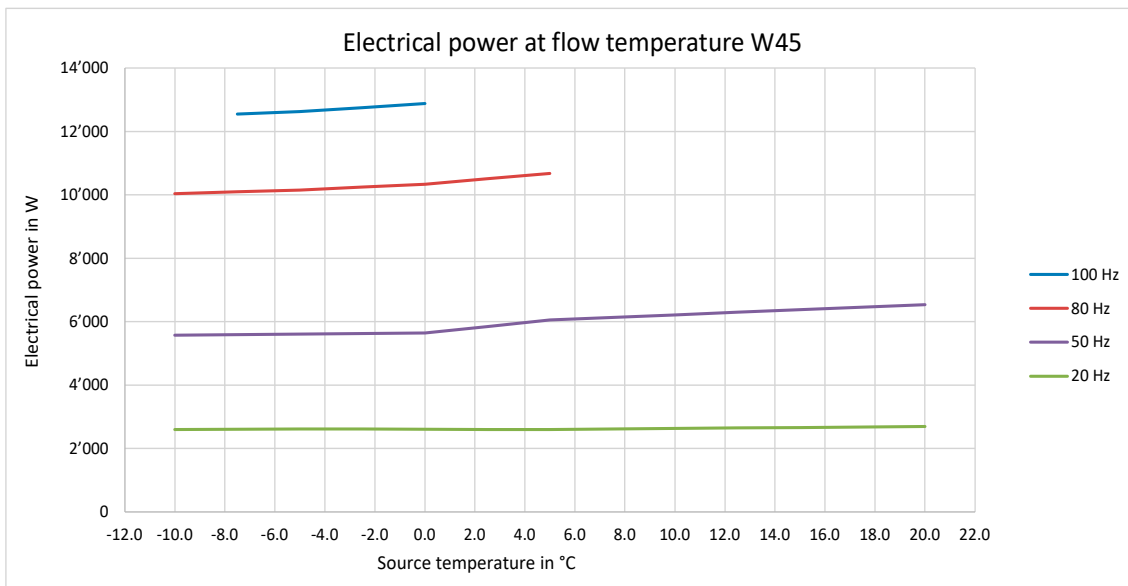


# Electric power consumption Aeroheat Inverta AH SCI 25a

## Power consumption at flow temperature W35

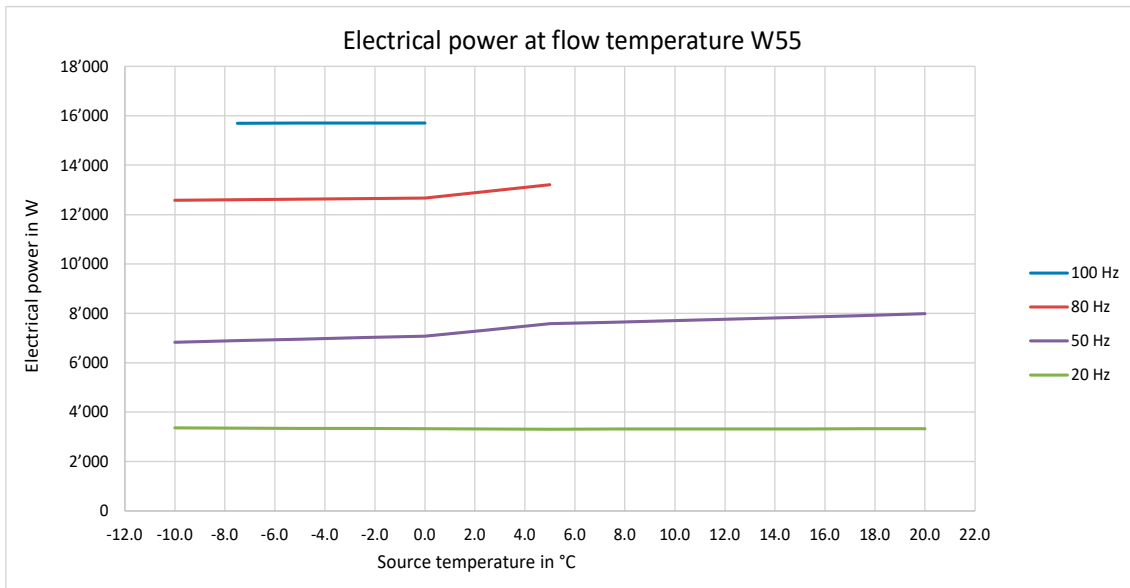


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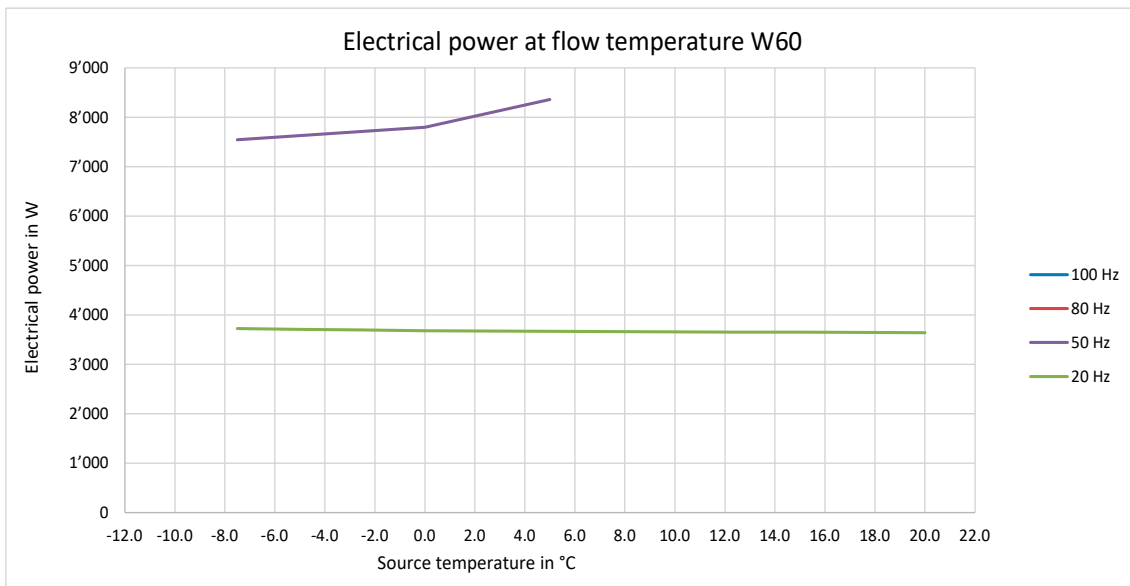


# Electric power consumption Aeroheat Inverta AH SCI 25a

## Power consumption at flow temperature W55



## Power consumption at flow temperature W60

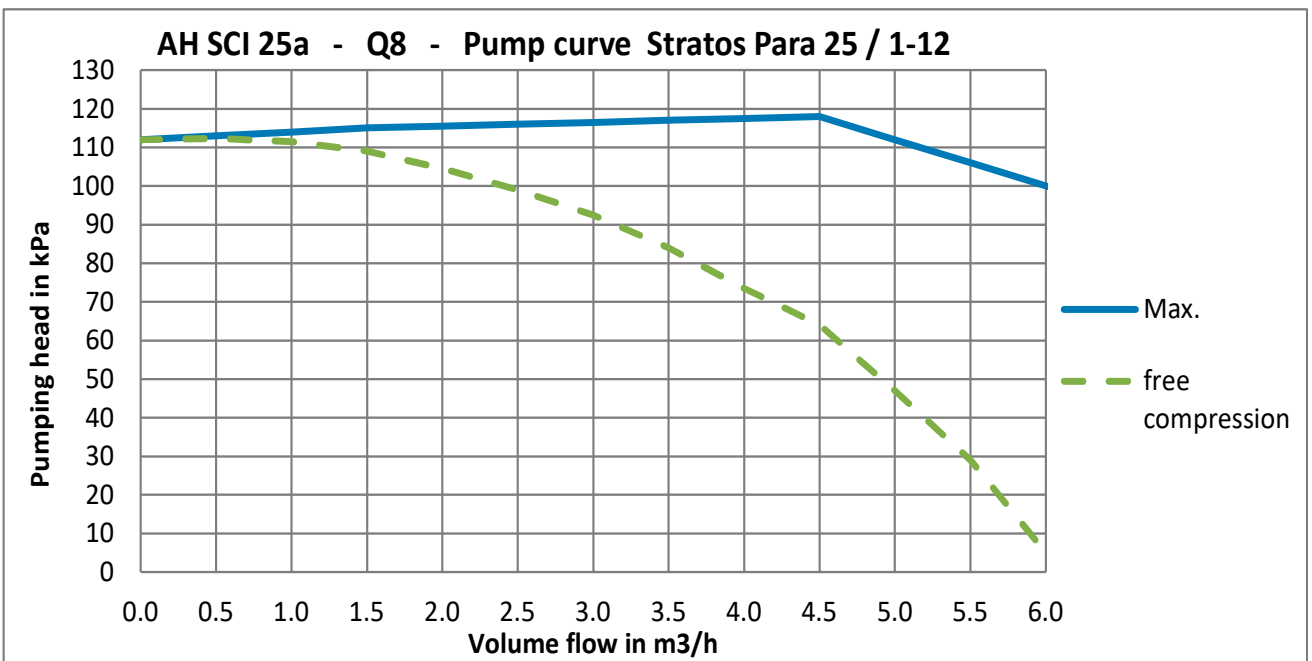
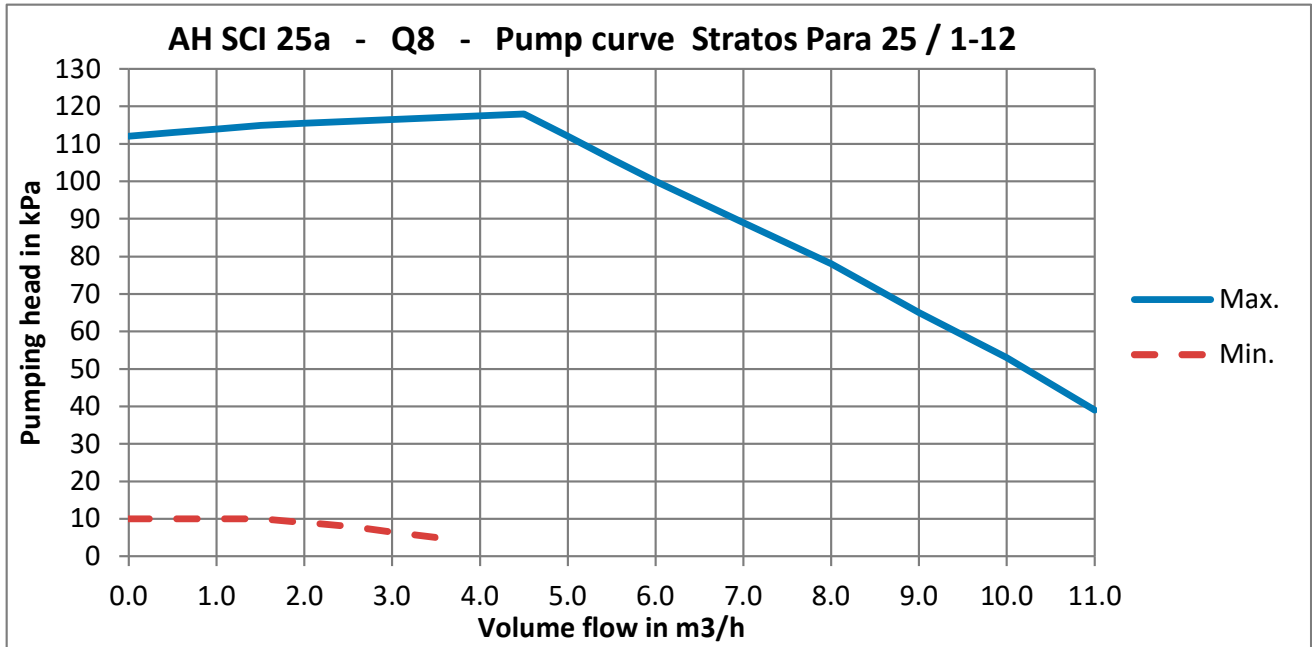


# Volume flow and pressure loss

## Aeroheat Inverta AH SCI 25a

Pump curve

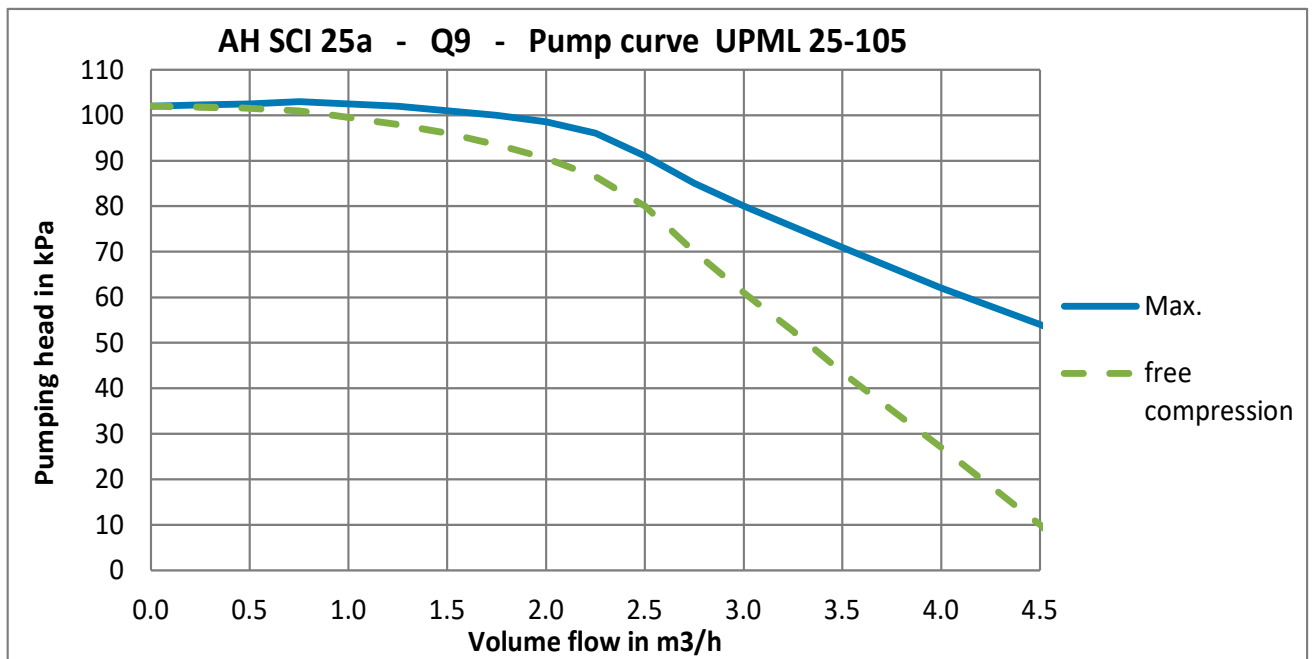
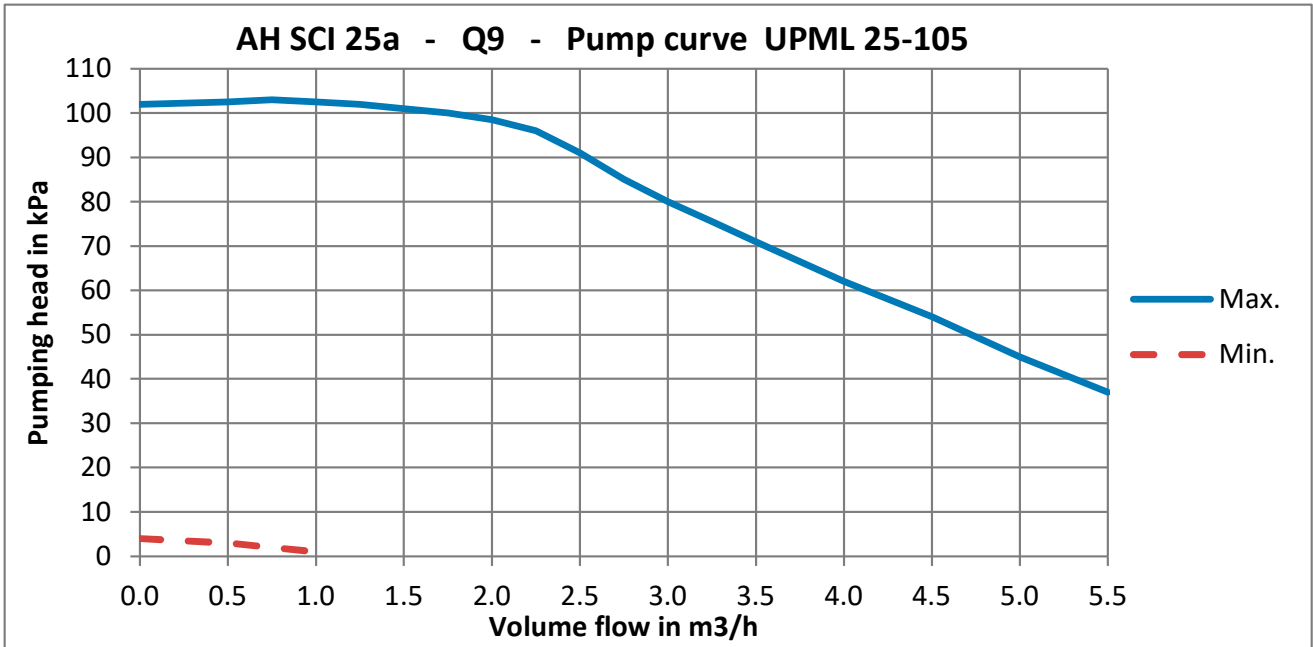
Heat source: evaporator



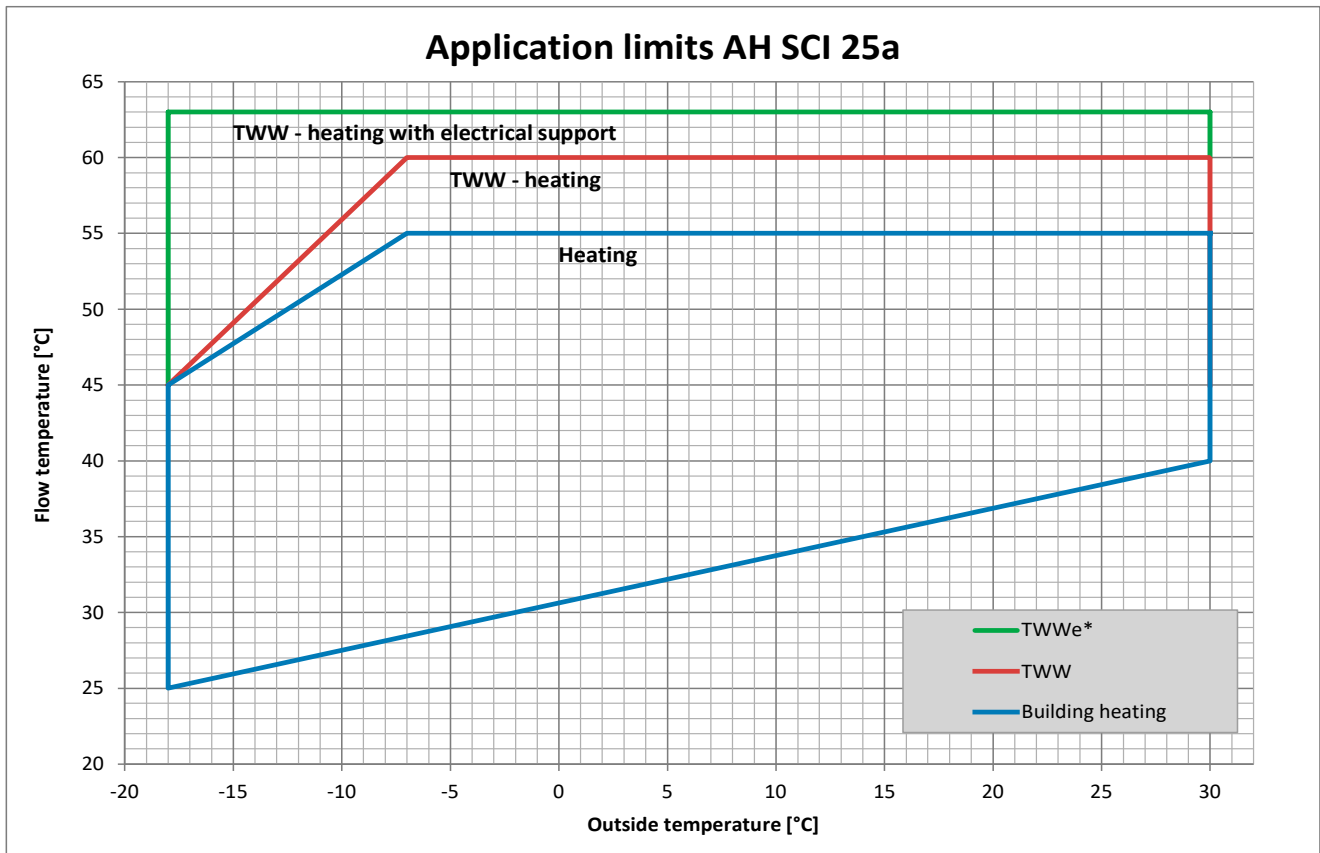
# Volume flow and pressure loss

## Aeroheat Inverta AH SCI 25a

Heating side: condenser



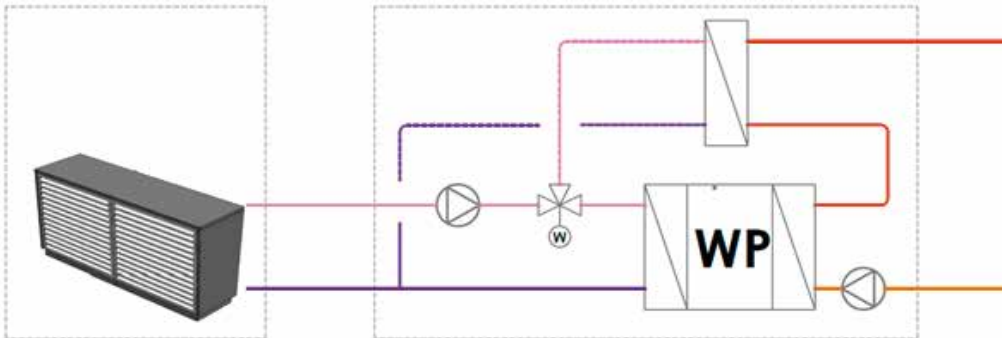
# Applications limit Aeroheat Inverta AH SCI 25a





## Function description

The heat pump is designed for heat generation for building heating and hot water preparation. The heat pump consists of an indoor and an outdoor unit which are connected to each other via brine pipes. The indoor unit consists of a compact refrigeration circuit, hydraulic module, electrical control box and control panel. The outdoor unit consists of a finned heat exchanger and two fans.



### Refrigeration cycle

The refrigeration circuit essentially consists of an inverter scroll compressor, an electronic expansion valve and brazed plate heat exchangers on the evaporator and condenser side housed in a sound-absorbing casing. The refrigerant used is R32.

### Hydraulic module

The hydraulic module contains the circulation pumps for heating and source circuit, flow sensor on the heating side, 6kW electric heating insert for hot water reheating, safety valves, connection option for expansion vessels, defrost plate exchanger with defrost switch valve.

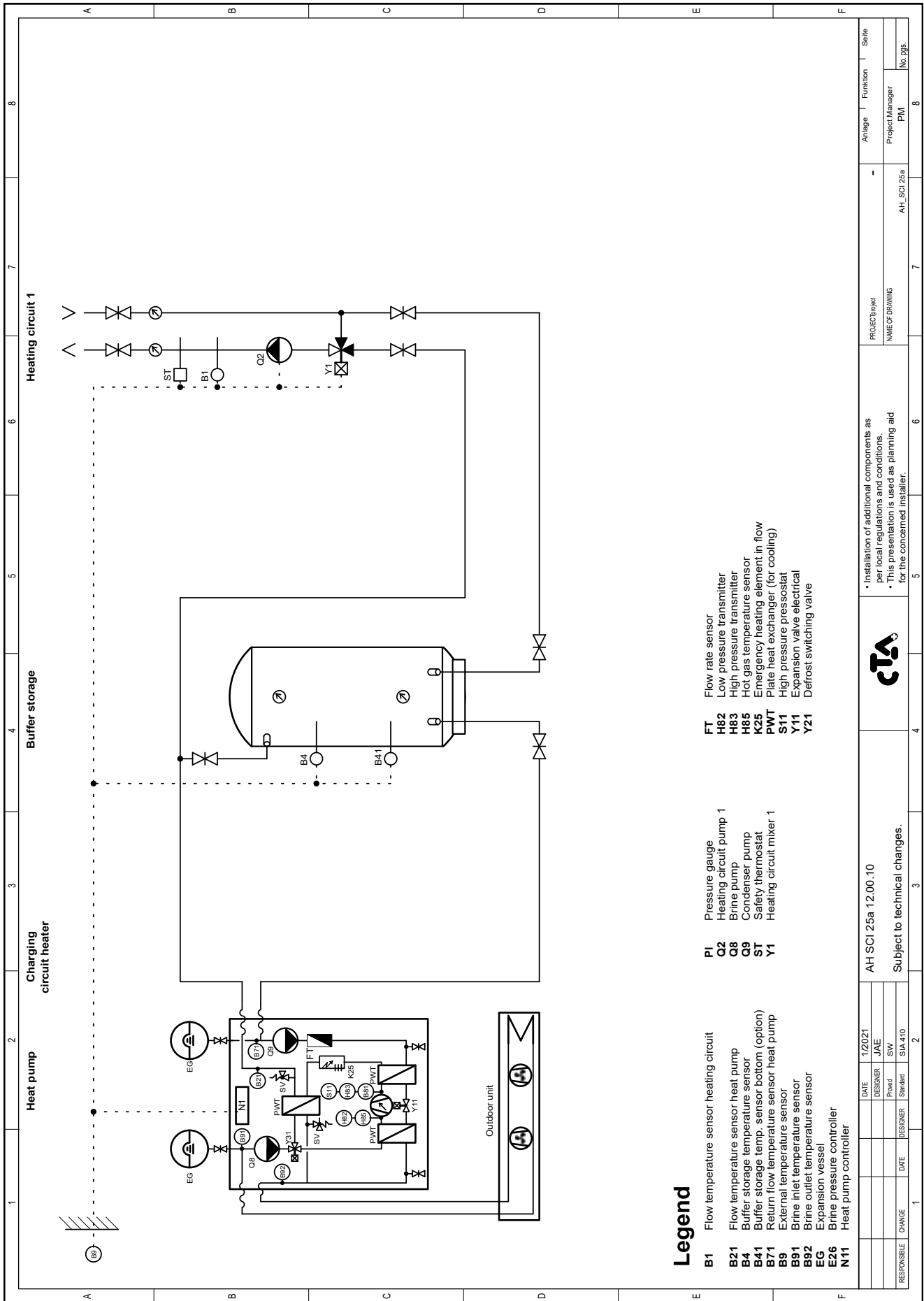
### Electrical switch box

All necessary components and sensors are wired to terminals ready for operation. The outdoor unit is connected to the indoor unit via two pluggable 15-metre connecting cables. Optional external field devices can be wired to predefined terminals.

### Outdoor unit

The outdoor unit is used to absorb the ambient heat. The ambient air is drawn through a brine-flow finned heat exchanger via two fans. The installed air intake sensor and the fin sensor are needed to determine the defrost parameters.

# Basic concepts / Extensions



## Legend

- B1** Flow temperature sensor heating circuit
- 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
- EG** Expansion vessel
- E26** Brine pressure controller
- N11** Heat pump controller

- PI** Pressure gauge
- C2** Heating circuit pump 1
- C8** Brine pump
- C9** Condenser pump
- ST** Safety thermostat
- Y1** Heating circuit mixer 1

- FT** Flow rate sensor
- H82** Low pressure transmitter
- H83** High pressure transmitter
- H85** Hot gas temperature sensor
- K25** Emergency heating element in flow
- PWT** Plate heat exchanger (for cooling)
- S11** High pressure pressostat
- Y11** Expansion valve electrical
- Y21** Defrost switching valve

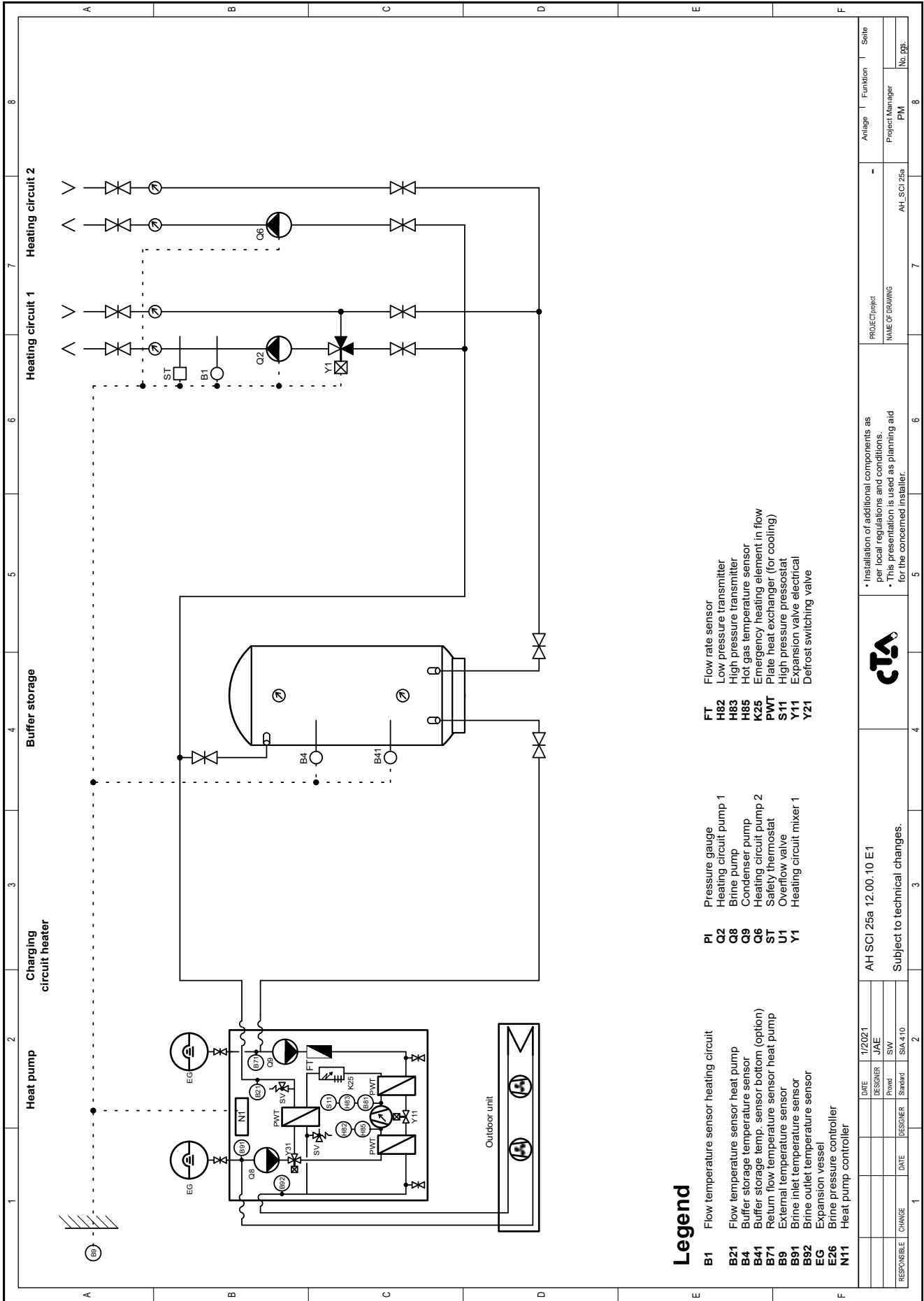
• Installation of additional components as per local regulations and conditions.  
 • This presentation is used as planning aid for the concerned installer.



AH SCI 25a 12.00.10  
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| Project Manager |        |          |       |
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| No. pgs.        |        |          |       |
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- Q2** Heating circuit pump 1
- Q8** Brine pump
- Q9** Condenser pump
- Q6** Heating circuit pump 2
- ST** Safety thermostat
- U1** Overflow valve
- Y1** Heating circuit mixer 1
- FT** Flow rate sensor
- H82** Low pressure transmitter
- H83** High pressure transmitter
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- K25** Emergency heating element in flow
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- S11** High pressure pressostat
- Y11** Expansion valve electrical
- Y21** Defrost switching valve

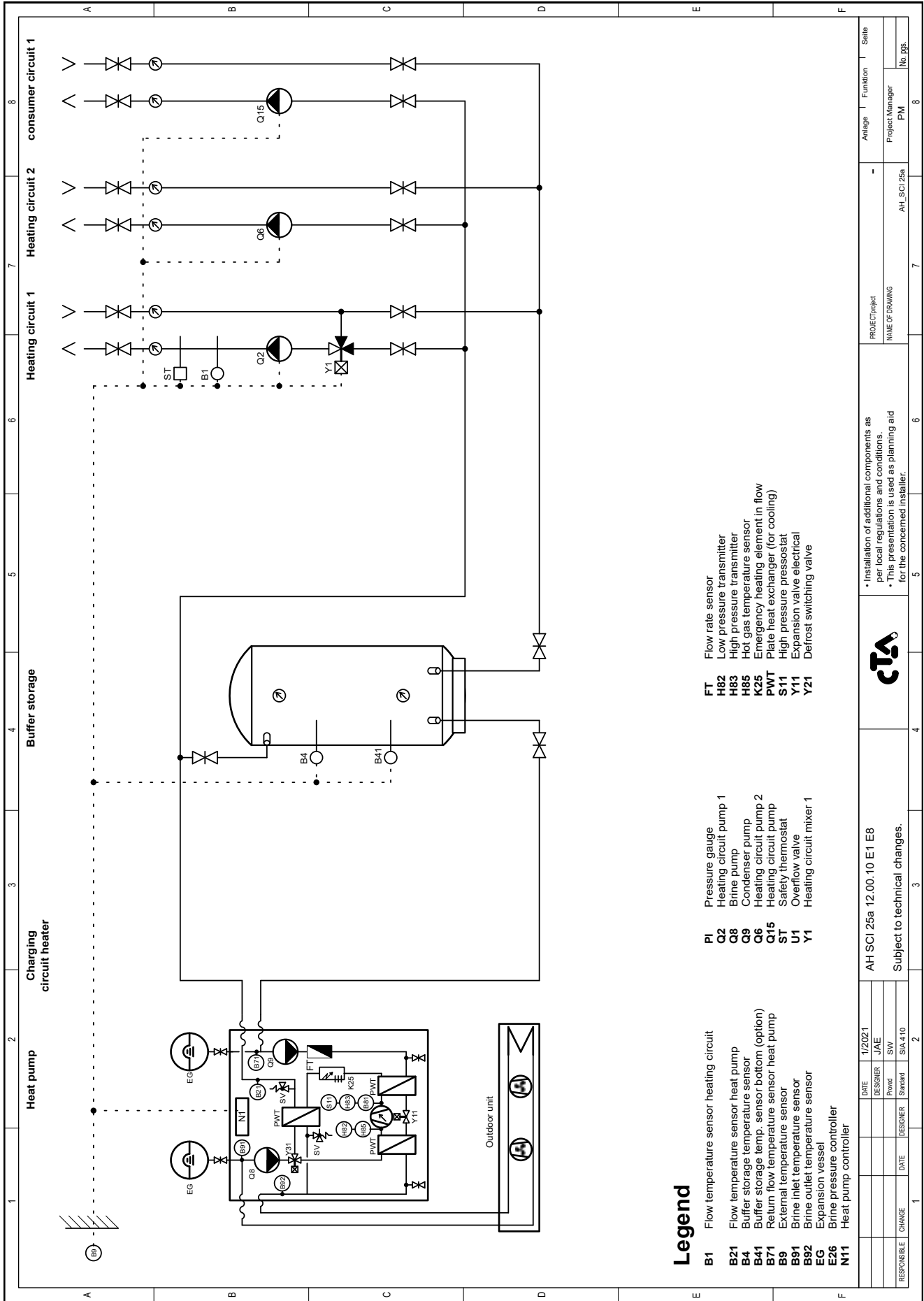
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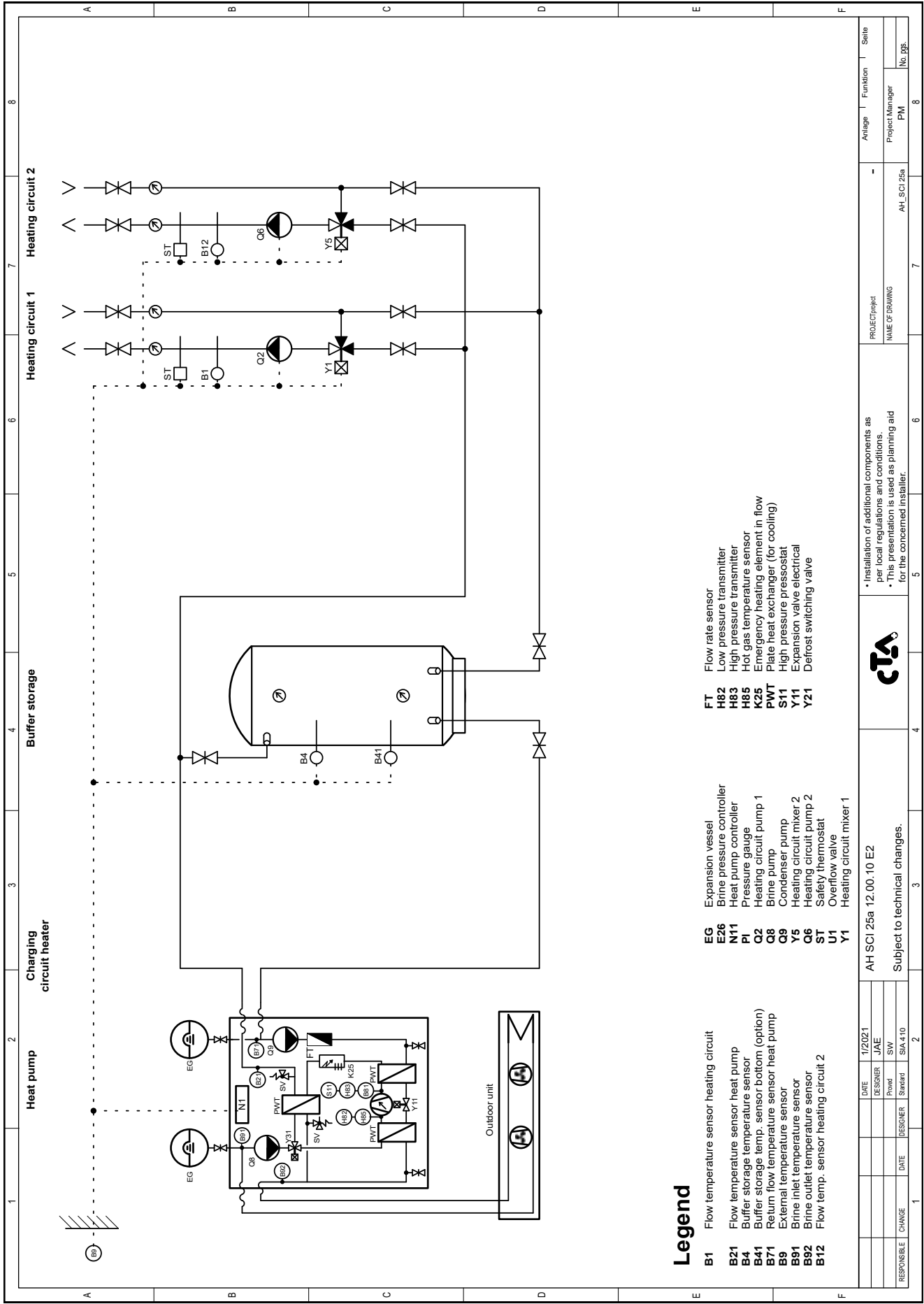


AH SCI 25a 12.00.10 E1  
Subject to technical changes.

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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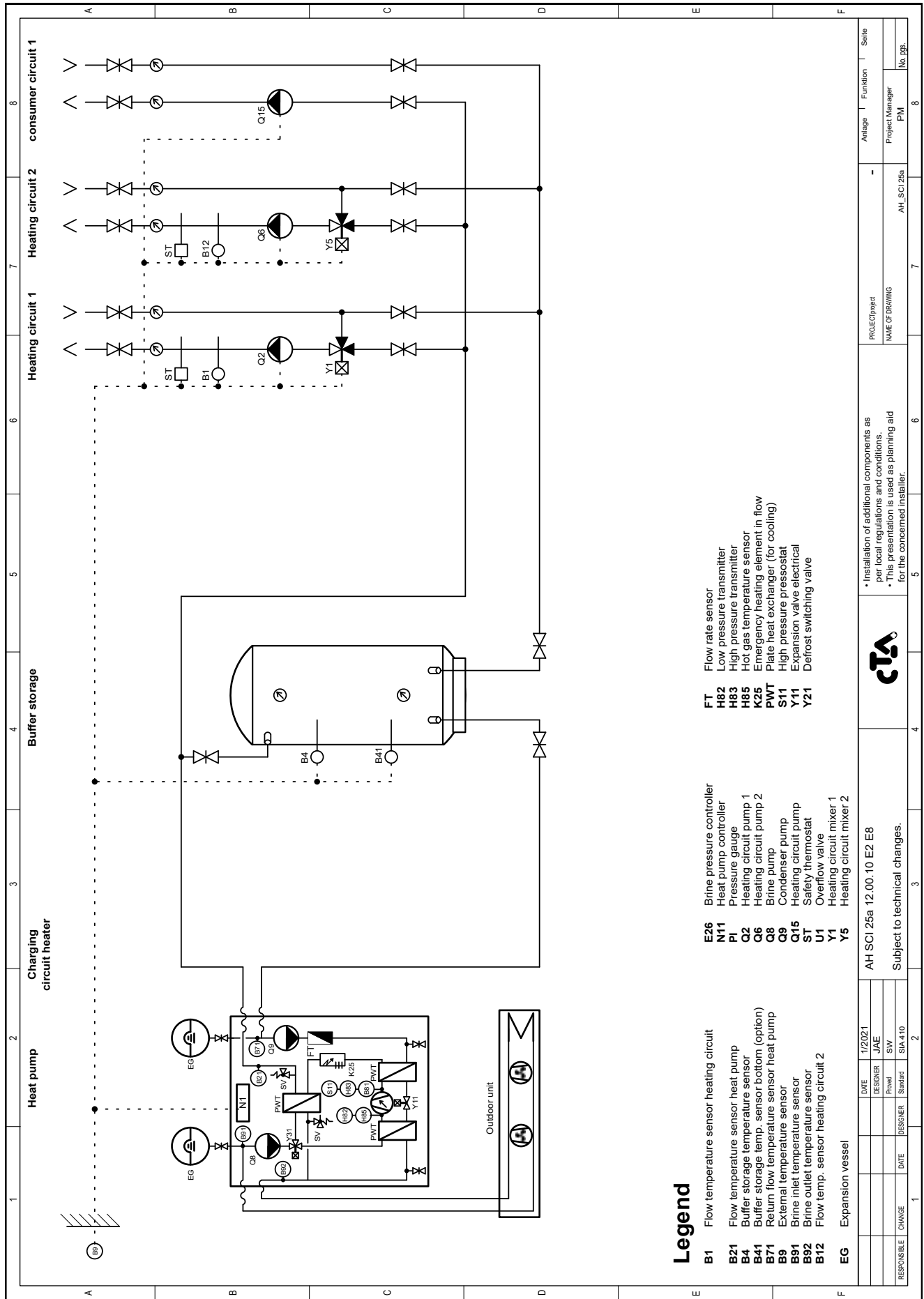


### Legend

- B1** Flow temperature sensor heating circuit
- 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
- B12** Flow temp. sensor heating circuit 2
- EG** Expansion vessel
- E26** Brine pressure controller
- N11** Heat pump controller
- PI** Pressure gauge
- Q2** Heating circuit pump 1
- Q8** Brine pump
- Q9** Condenser pump
- Y5** Heating circuit mixer 2
- Q6** Heating circuit pump 2
- ST** Safety thermostat
- U1** Overflow valve
- Y1** Heating circuit mixer 1
- FT** Flow rate sensor
- H82** Low pressure transmitter
- H83** High pressure transmitter
- H85** Hot gas temperature sensor
- K25** Emergency heating element in flow
- PWT** Plate heat exchanger (for cooling)
- S11** High pressure pressostat
- Y11** Expansion valve electrical
- Y21** Detrost switching valve

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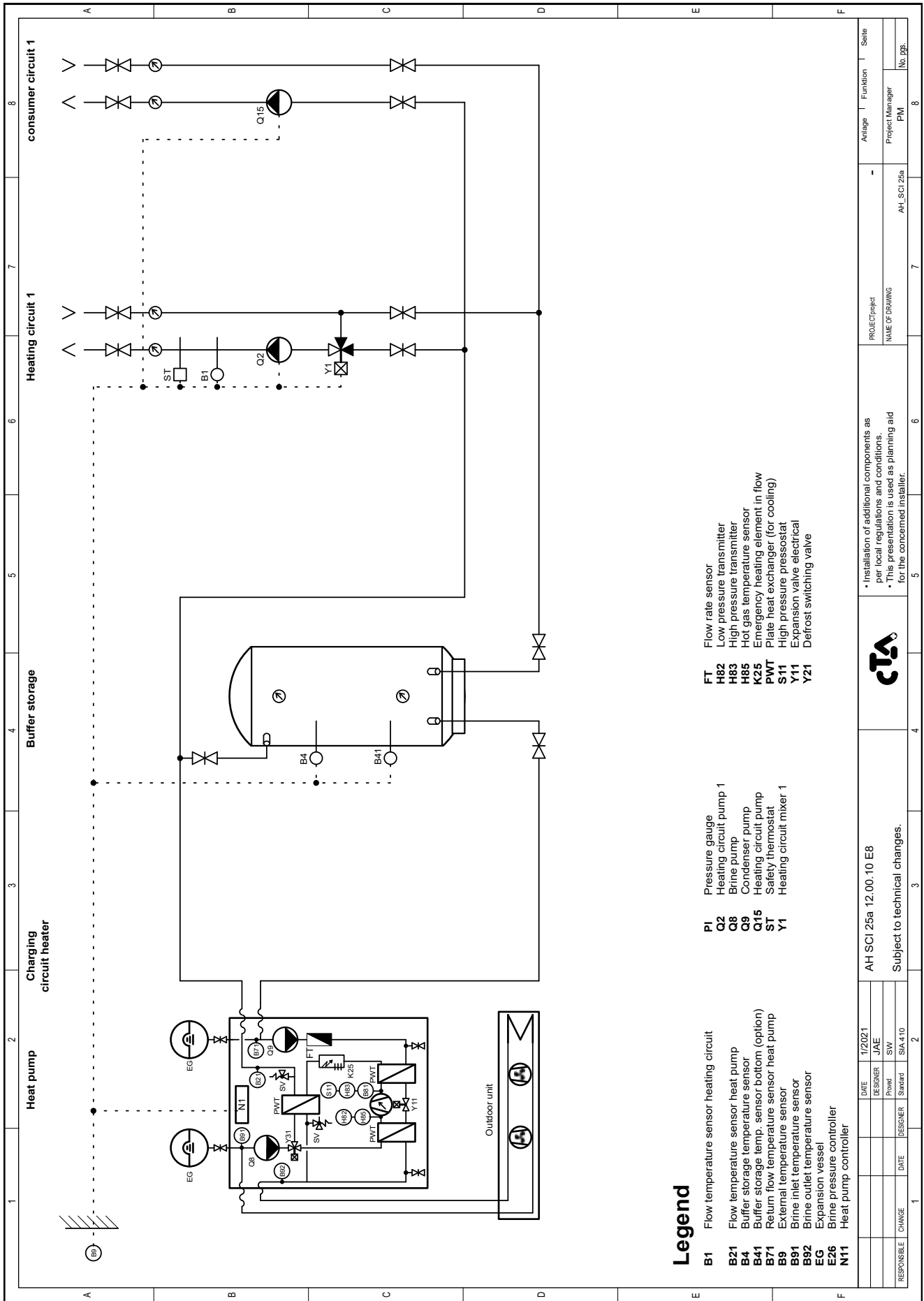
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- Q8** Brine pump
- Q9** Condenser pump
- Q15** Heating circuit pump
- ST** Safety thermostat
- U1** Overflow valve
- Y1** Heating circuit mixer 1
- Y5** Heating circuit mixer 2
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- Y11** Expansion valve electrical
- Y21** Detrost switching valve

|                 |  |                               |      |          |    |          |          |      |  |        |          |                 |      |                 |          |                 |      |            |          |     |      |        |
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\* 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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- B91** Brine inlet temperature sensor
- B92** Brine outlet temperature sensor
- EG** Expansion vessel
- E26** Brine pressure controller
- N11** Heat pump controller

- PI** Pressure gauge
- Q2** Heating circuit pump 1
- Q8** Brine pump
- Q9** Condenser pump
- Q15** Heating circuit pump
- ST** Safety thermostat
- Y1** Heating circuit mixer 1

- FT** Flow rate sensor
- H82** Low pressure transmitter
- H83** High pressure transmitter
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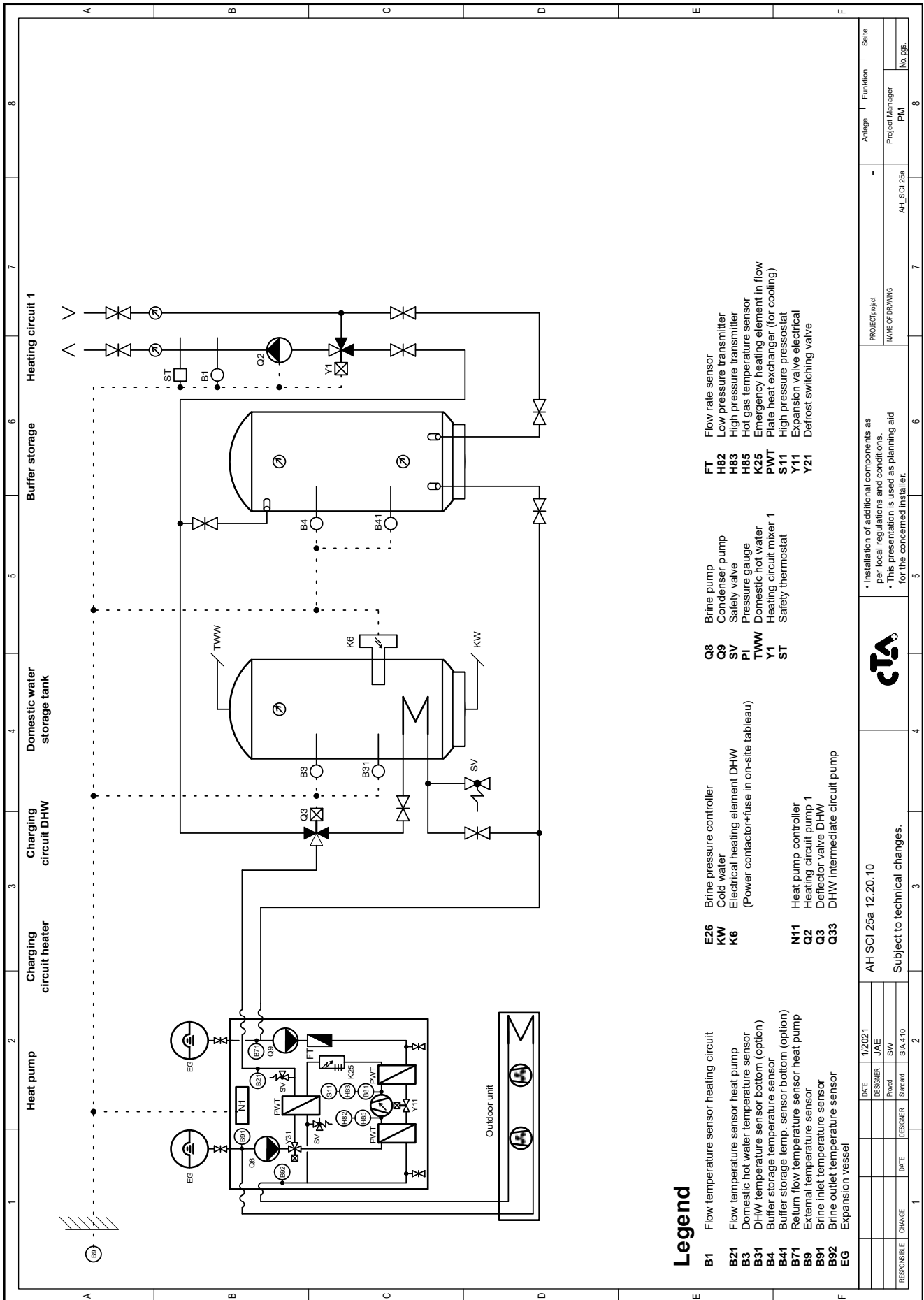
• Installation of additional components as per local regulations and conditions.  
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AH SCI 25a 12.00.10 E8  
 Subject to technical changes.

| RESPONSIBLE | CHANGE | DATE | DESIGNER | PROV. | STANDARD | SIA 4.10 |
|-------------|--------|------|----------|-------|----------|----------|
|             |        |      |          |       |          |          |

| PROJECT/PROJECT | ANTHAGE    | FUNKTION | SELLE    |
|-----------------|------------|----------|----------|
| NAME OF DRAWING |            |          |          |
|                 | AH_SCI 25a | PM       |          |
|                 |            |          | No. PPS. |

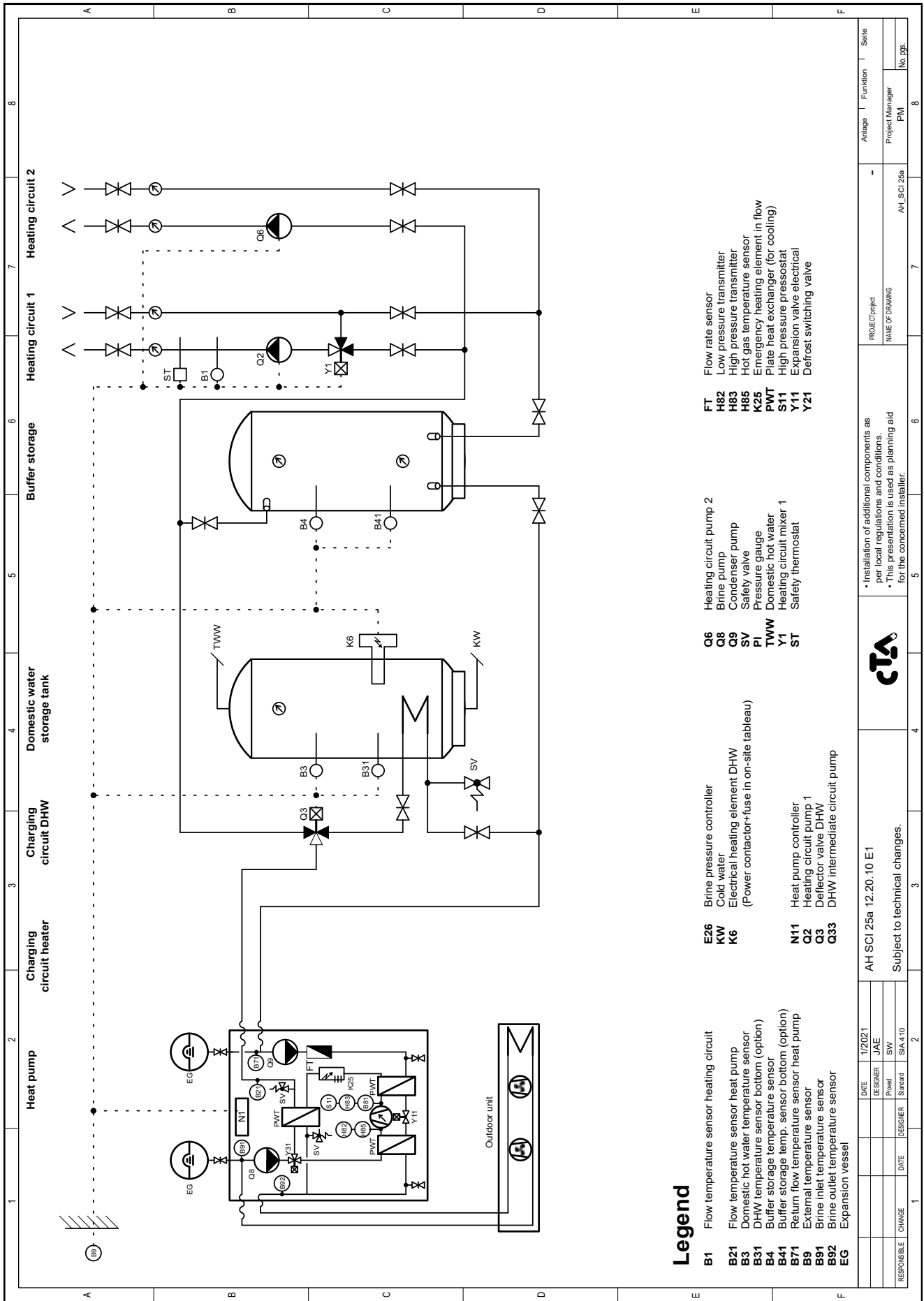


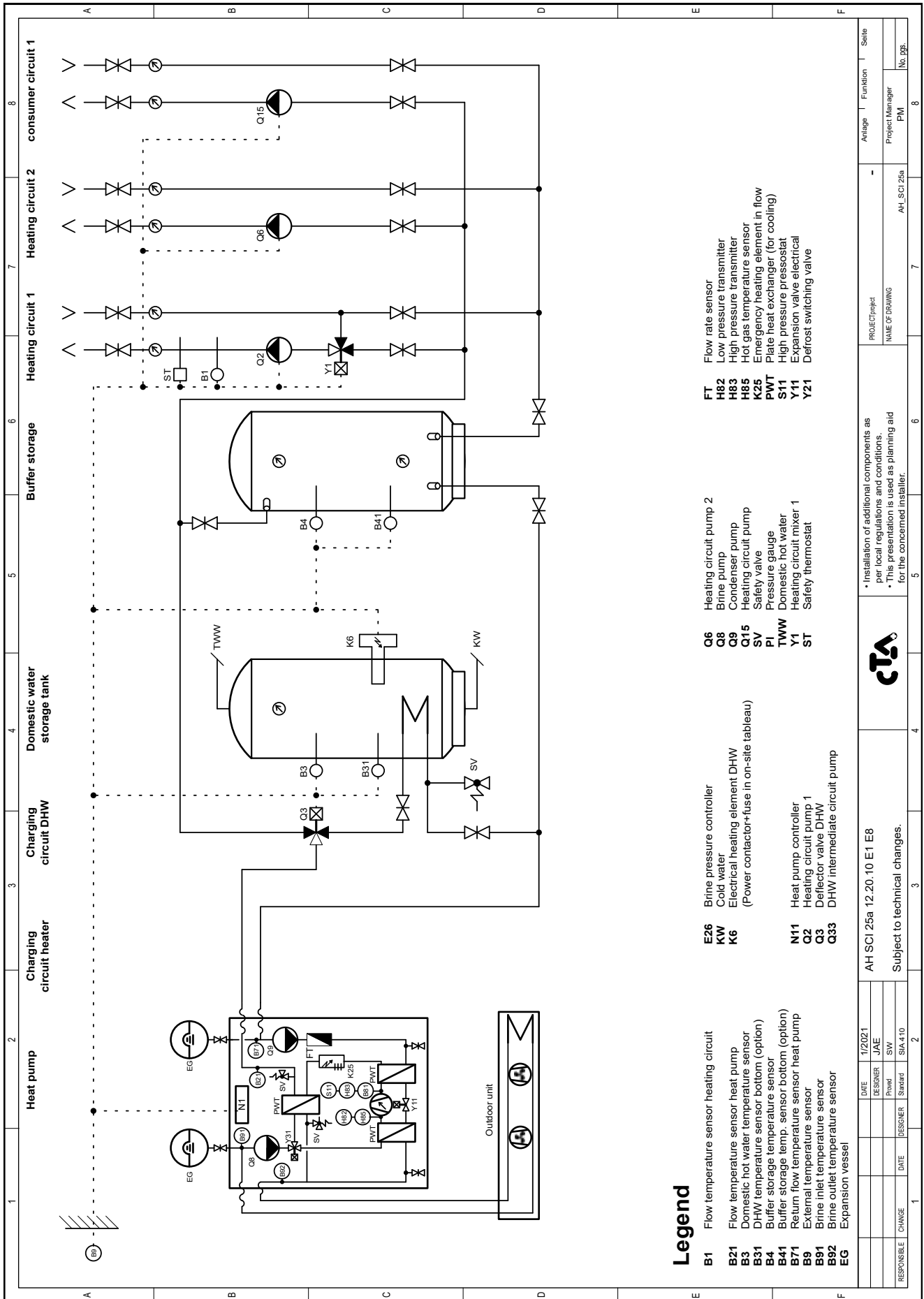
**Legend**

- B1** Flow temperature sensor heating circuit
- 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
- 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
- Q2** Heating circuit pump 1
- Q3** Deflector valve DHW
- Q33** DHW intermediate circuit pump
- Q8** Brine pump
- Q9** Condenser pump
- SV** Safety valve
- PI** Pressure gauge
- TWW** Domestic hot water
- Y1** Heating circuit mixer 1
- ST** Safety thermostat
- FT** Flow rate sensor
- H82** Low pressure transmitter
- H83** High pressure transmitter
- H85** Hot gas temperature sensor
- K25** Emergency heating element in flow
- PWT** Plate heat exchanger (for cooling)
- S11** High pressure pressostat
- Y11** Expansion valve electrical
- Y21** Defrost switching valve

|             |  |        |      |          |        |          |          |      |  |        |          |     |      |                     |                |                               |            |                 |    |  |    |       |   |  |  |
|-------------|--|--------|------|----------|--------|----------|----------|------|--|--------|----------|-----|------|---------------------|----------------|-------------------------------|------------|-----------------|----|--|----|-------|---|--|--|
| RESPONSIBLE |  | CHANGE | DATE | DESIGNER | PROVED | STANDARD | SIA 4.10 | DATE |  | 1/2021 | DESIGNER | JAE | DATE | 1/2021              | PROJEC/PROJECT | NAME OF DRAWING               | AH_SCI 25a | PROJECT MANAGER | PM | FUNCTION   | PM | SHEET | 8 |  |  |
|             |  |        |      |          |        |          |          |      |  |        |          |     |      | AH SCI 25a 12.20.10 |                | Subject to technical changes. |            | CTA             |    | * Installation of additional components as per local regulations and conditions.<br>* This presentation is used as planning aid for the concerned installer. |    |       |   |  |  |





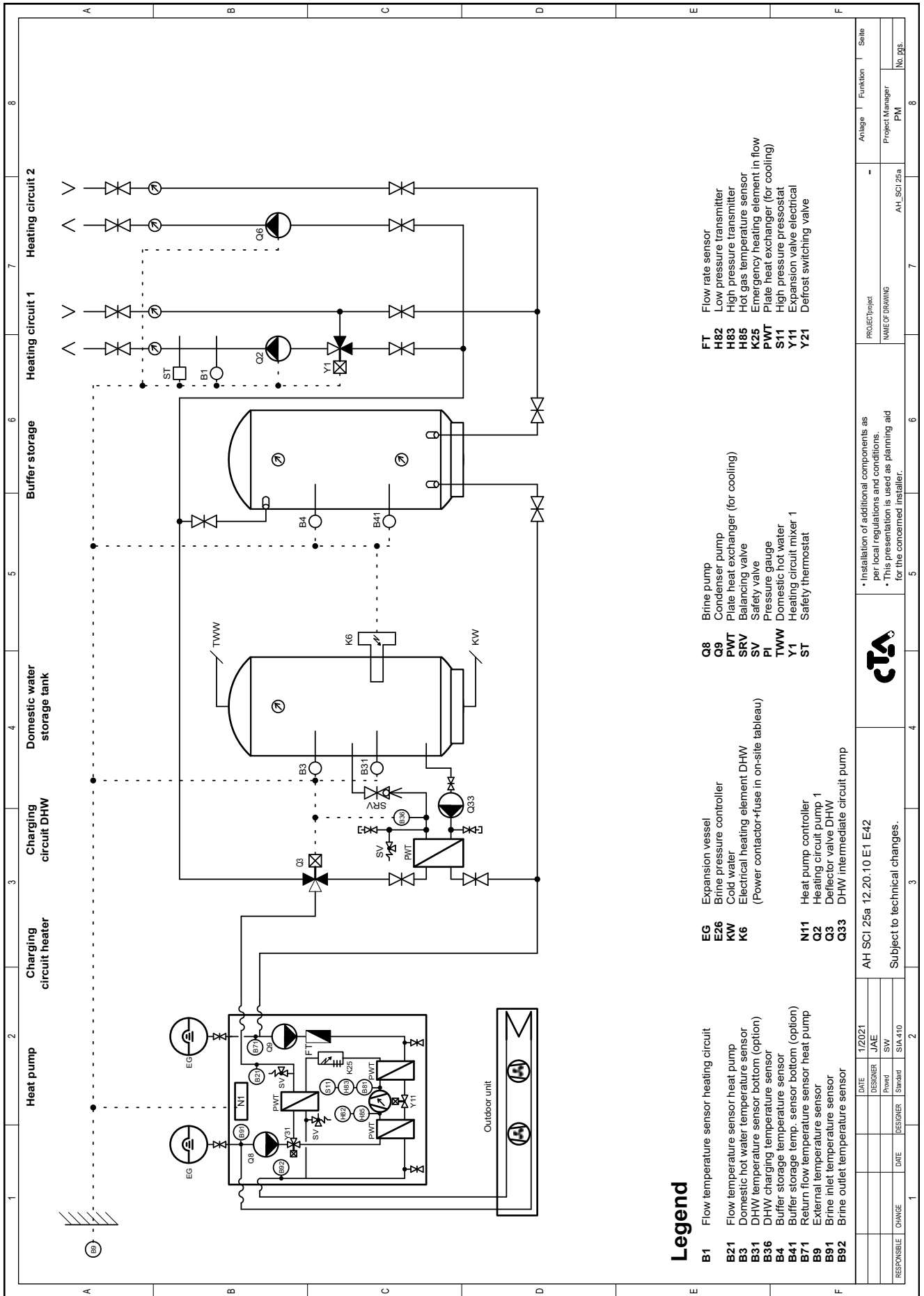


**Legend**

- B1** Flow temperature sensor heating circuit
- 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
- 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
- Q2** Heating circuit pump 1
- Q3** Deflector valve DHW
- Q33** DHW intermediate circuit pump
- Q8** Heating circuit pump 2
- Q8** Brine pump
- Q9** Condenser pump
- Q15** Heating circuit pump
- SV** Safety valve
- PI** Pressure gauge
- TWW** Domestic hot water
- Y1** Heating circuit mixer 1
- ST** Safety thermostat
- FT** Flow rate sensor
- H82** Low pressure transmitter
- H83** High pressure transmitter
- H85** Hot gas temperature sensor
- K25** Emergency heating element in flow
- PWT** Plate heat exchanger (for cooling)
- S11** High pressure pressostat
- Y11** Expansion valve electrical
- Y21** Derrost switching valve

|             |  |        |      |          |    |          |         |      |  |        |          |     |      |                               |         |  |          |  |  |   |  |
|-------------|--|--------|------|----------|----|----------|---------|------|--|--------|----------|-----|------|-------------------------------|---------|--|----------|--|--|---|--|
| RESPONSIBLE |  | CHANGE | DATE | DESIGNER | SW | STANDARD | SIA 410 | DATE |  | 1/2021 | DESIGNER | JAE | DATE | 1/2021                        | PROJECT | PROJECT  | FUNCTION | SET  |  |   |  |
|             |  |        |      |          |    |          |         |      |  |        |          |     |      | AH SCI 25a 12.20.10 E1 E8     |         | AH SCI 25a   |          | PM   |  | 8 |  |
|             |  |        |      |          |    |          |         |      |  |        |          |     |      | Subject to technical changes. |         | Installation of additional components as per local regulations and conditions. |          | This presentation is used as planning aid for the concerned installer. |  |   |  |

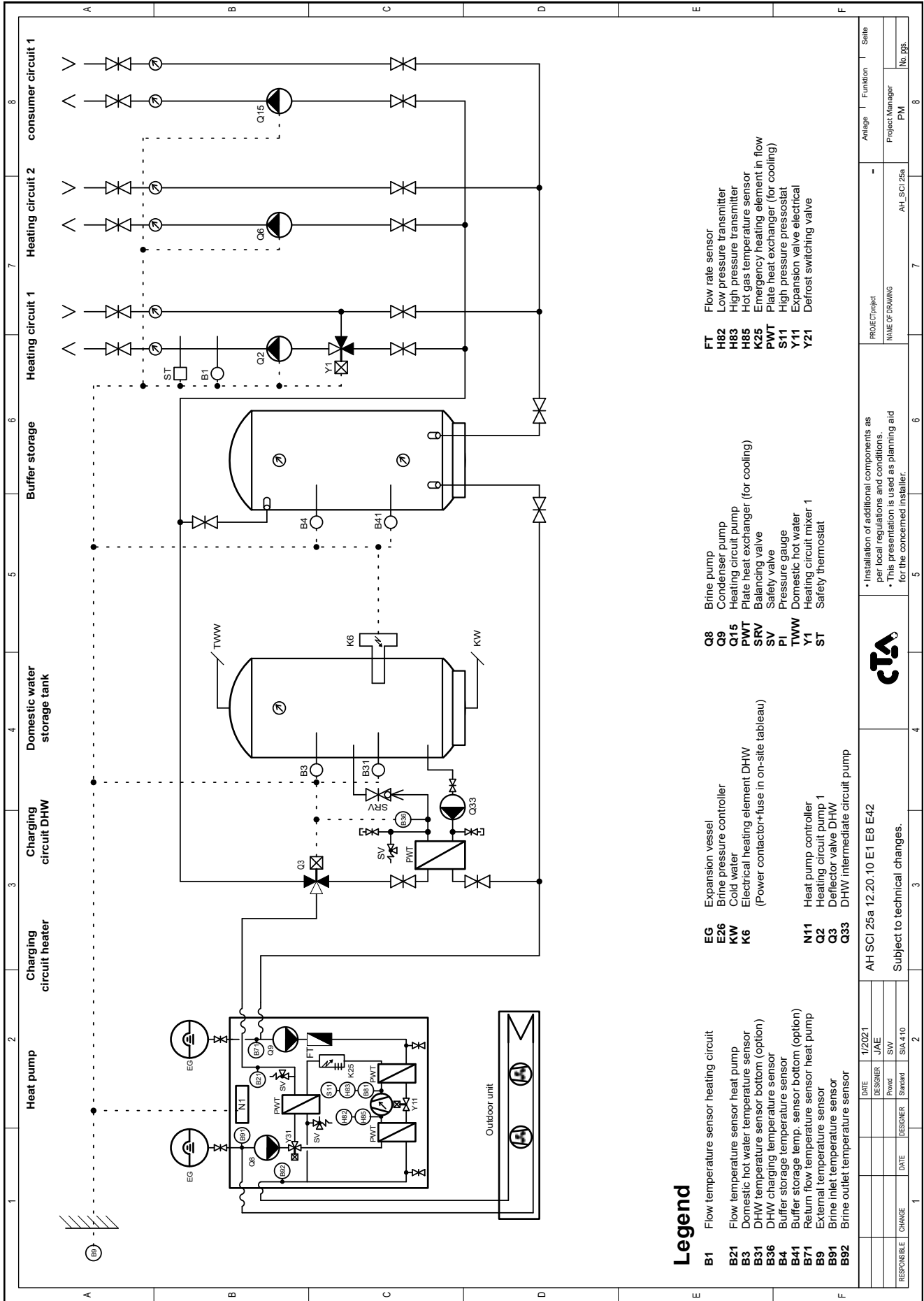




### Legend

- B1** Flow temperature sensor heating circuit
- 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
- 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
- Q2** Heating circuit pump 1
- Q3** Deflector valve DHW
- Q33** DHW intermediate circuit pump
- Q8** Brine pump
- Q9** Condenser pump
- PMT** Plate heat exchanger (for cooling)
- SRV** Balancing valve
- SV** Safety valve
- PL** Pressure gauge
- TWW** Domestic hot water
- Y1** Heating circuit mixer 1
- ST** Safety thermostat
- FT** Flow rate sensor
- H82** Low pressure transmitter
- H83** High pressure transmitter
- H85** Hot gas temperature sensor
- K25** Emergency heating element in flow
- PWT** Plate heat exchanger (for cooling)
- S11** High pressure pressostat
- Y11** Expansion valve electrical
- Y21** Defrost switching valve

|  |                 |            |          |        |                 |
|--|-----------------|------------|----------|--------|-----------------|
| AH SCI 25a 12.20.10 E1 E42   |                 | AH SCI 25a |          | -      |                 |
| RESponsible  | CHANGE          | DATE       | DESIGNER | Strand | SIA 410         |
| DESIGNER   | JAE             | 1/2021     | DATE     | 1/2021 | Seite           |
| PROVED   | SW              |            | DESIGNER | Strand | SIA 410         |
| PROJECT/Project  | PROJECT/Project |            |          |        | Project Manager |
| NAME OF DRAWING  | NAME OF DRAWING |            |          |        | PM              |
| <ul style="list-style-type: none"> <li>• Installation of additional components as per local regulations and conditions.</li> <li>• This presentation is used as planning aid for the concerned installer.</li> </ul> |                 |            |          |        | No. pgs.        |
| <p style="text-align: center;"><b>CTA</b></p>  |                 |            |          |        | 8               |
| <p style="text-align: center;">Subject to technical changes.</p>   |                 |            |          |        | 8               |



**Legend**

- B1** Flow temperature sensor heating circuit
- B21** Flow temperature sensor heat pump
- B3** Domestic hot water temperature sensor
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- 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

- 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
- Q2** Heating circuit pump 1
- Q3** Deflector valve DHW
- Q33** DHW intermediate circuit pump

- Q8** Brine pump
- Q9** Condenser pump
- Q15** Heating circuit pump
- PWT** Plate heat exchanger (for cooling)
- SRV** Balancing valve
- SV** Safety valve
- PI** Pressure gauge
- TWW** Domestic hot water
- Y1** Heating circuit mixer 1
- ST** Safety thermostat

- FT** Flow rate sensor
- H82** Low pressure transmitter
- H83** High pressure transmitter
- H85** Hot gas temperature sensor
- K25** Emergency heating element in flow
- PWT** Plate heat exchanger (for cooling)
- S11** High pressure pressostat
- Y11** Expansion valve electrical
- Y21** Defrost switching valve

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

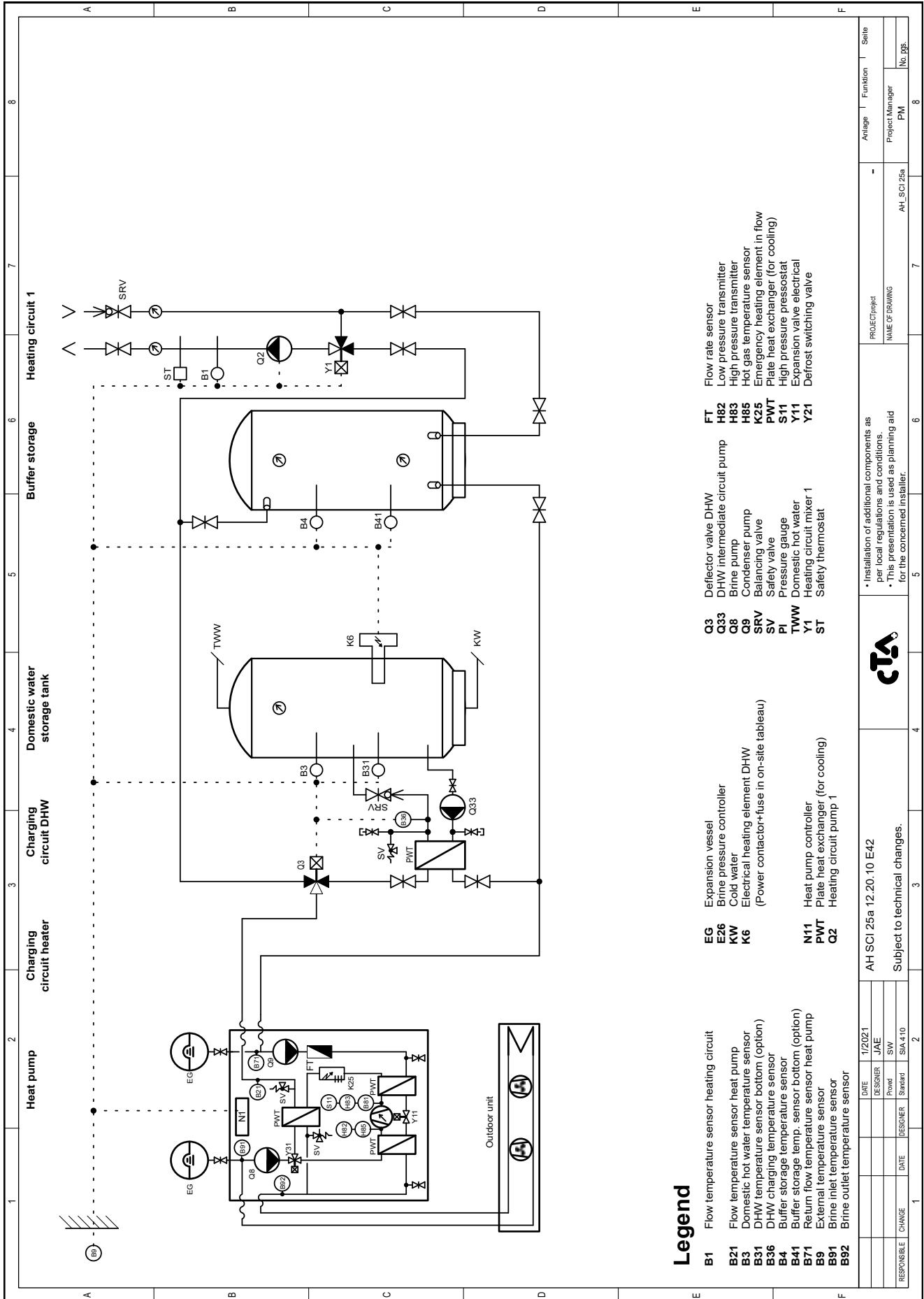


AH SCI 25a 12.20.10 E1 E8 E42  
 Subject to technical changes.

| RESPONSIBLE | CHANGE | DATE | DESIGNER | Standard | SIA 4.10 |
|-------------|--------|------|----------|----------|----------|
|             |        |      |          |          |          |

| PROJECT         | PROJECT    | Antage | Function | Seite |
|-----------------|------------|--------|----------|-------|
| NAME OF DRAWING | AH_SCI 25a | PM     | PM       | 8     |
| No. DRS.        |            |        |          |       |



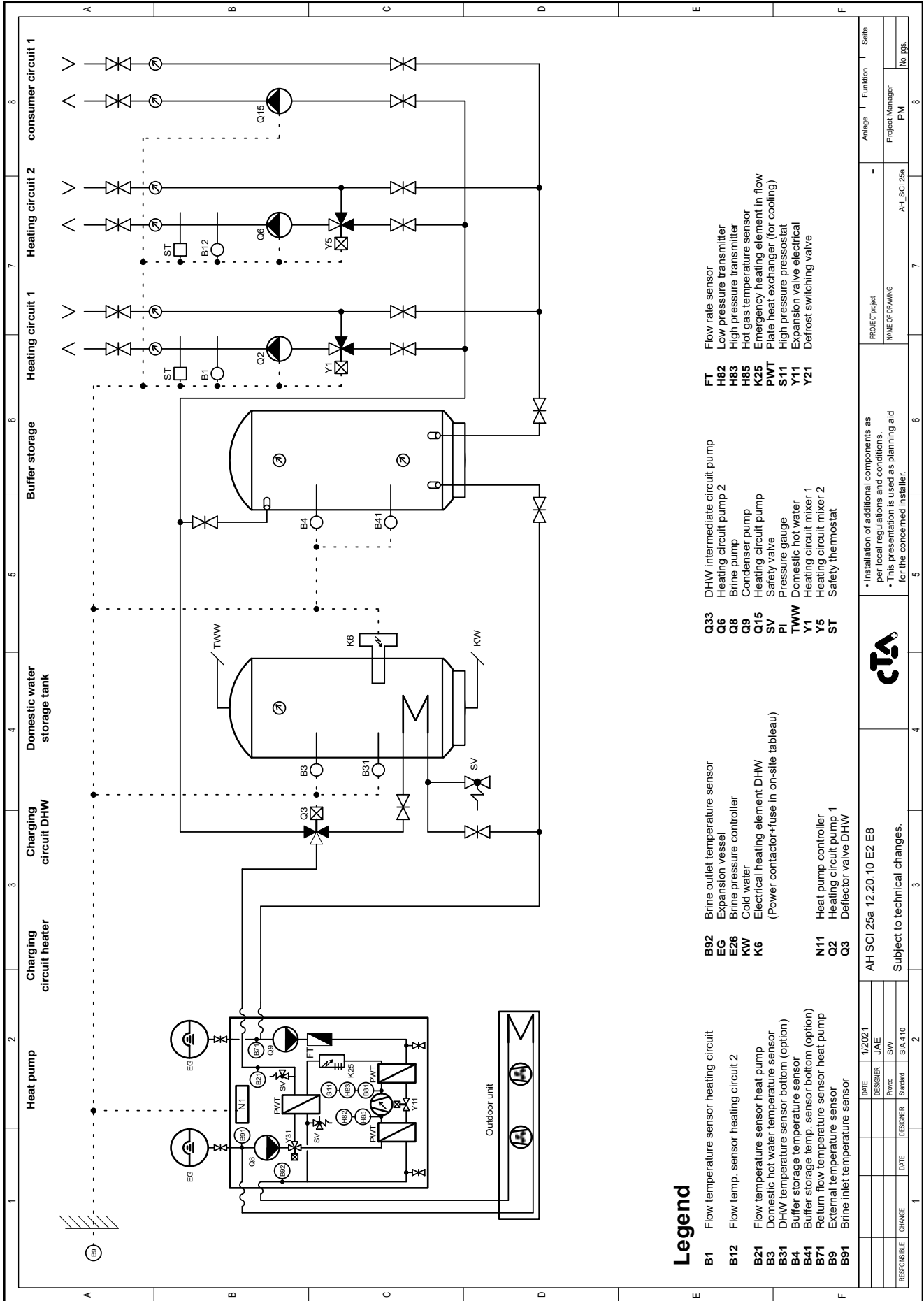


**Legend**

- B1** Flow temperature sensor heating circuit
- 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
- 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
- PWT** Plate heat exchanger (for cooling)
- Q2** Heating circuit pump 1
- Q3** Deflector valve DHW
- Q33** DHW intermediate circuit pump
- C83** Brine pump
- C89** Condenser pump
- SRV** Balancing valve
- SV** Safety valve
- PL** Pressure gauge
- TW** Domestic hot water
- Y1** Heating circuit mixer 1
- ST** Safety thermostat
- FT** Flow rate sensor
- H82** Low pressure transmitter
- H83** High pressure transmitter
- H85** Hot gas temperature sensor
- K25** Emergency heating element in flow
- PWT** Plate heat exchanger (for cooling)
- PL** High pressure pressostat
- Y11** Expansion valve electrical
- Y21** Defrost switching valve

|             |  |        |      |          |        |          |          |  |  |        |          |     |                               |  |        |          |     |            |  |                 |          |       |
|-------------|--|--------|------|----------|--------|----------|----------|--|--|--------|----------|-----|-------------------------------|--|--------|----------|-----|------------|--|-----------------|----------|-------|
| RESPONSIBLE |  | CHANGE | DATE | DESIGNER | PROVED | STANDARD | SIA 4 10 | DATE   |  | 1/2021 | DESIGNER | JAE | DATE                          |  | 1/2021 | DESIGNER | JAE | PROJECT    |  | PROJECT         | FUNCTION | SHEET |
|             |  |        |      |          |        |          |          | AH SCI 25a 12.20.10 E42  |  |        |          |     | Subject to technical changes. |  |        |          |     | AH_SCI 25a |  | Project Manager | PM       |       |
|             |  |        |      |          |        |          |          | Installation of additional components as per local regulations and conditions.<br>* This presentation is used as planning aid for the concerned installer. |  |        |          |     |                               |  |        |          |     |            |  |                 |          |       |

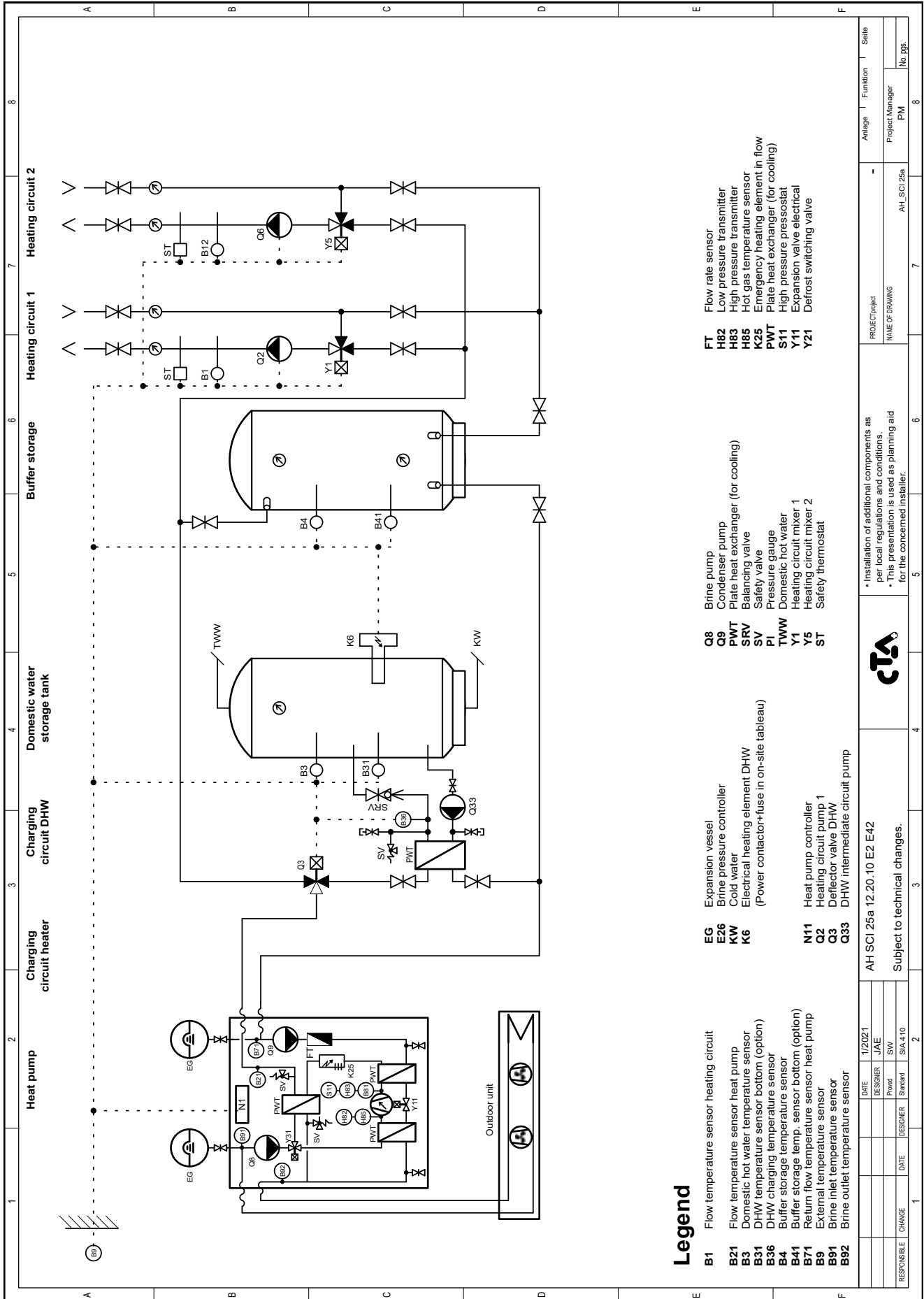




### Legend

- B1** Flow temperature sensor heating circuit
- B12** Flow temp. sensor heating circuit 2
- 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)
- B9** Return flow temperature sensor heat pump
- B91** 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
- Q2** Heating circuit pump 1
- Q3** Deflector valve DHW
- Q33** DHW intermediate circuit pump
- Q6** Heating circuit pump 2
- Q8** Brine pump
- Q9** Condenser pump
- Q15** Heating circuit pump
- SV** Safety valve
- PL** Pressure gauge
- TWW** Domestic hot water
- Y1** Heating circuit mixer 1
- Y5** Heating circuit mixer 2
- Y11** Safety thermostat
- FT** Flow rate sensor
- H82** Low pressure transmitter
- H83** High pressure transmitter
- H85** Hot gas temperature sensor
- K25** Emergency heating element in flow
- PWT** Plate heat exchanger (for cooling)
- S11** High pressure pressostat
- Y11** Expansion valve electrical
- Y21** Defrost switching valve

|  |                                    |  |                  |         |
|--|------------------------------------|--|------------------|---------|
|  |                                    | AH SCI 25a 12.20.10 E2 E8<br>Subject to technical changes. | AH SCI 25a<br>PM | No. 005 |
| * Installation of additional components as per local regulations and conditions.<br>* This presentation is used as planning aid for the concerned installer. |                                    |  |                  |         |
| PROJECT/Project<br>NAME OF DRAWING   | ANTIAGE   Funktion   Seite         |  |                  |         |
| RESPONSIBLE   CHANGE   DATE   DESIGNER   Standard   SIA 410  | PROJECT/Project<br>NAME OF DRAWING | ANTIAGE   Funktion   Seite                                 |                  |         |



**Legend**

- B1** Flow temperature sensor heating circuit
- 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
- 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
- Q2** Heating circuit pump 1
- Q3** Deflector valve DHW
- Q33** DHW intermediate circuit pump
- Q8** Brine pump
- Q9** Condenser pump
- PWT** Plate heat exchanger (for cooling)
- SRV** Balancing valve
- SV** Safety valve
- PI** Pressure gauge
- TWW** Domestic hot water
- Y1** Heating circuit mixer 1
- Y5** Heating circuit mixer 2
- ST** Safety thermostat
- FT** Flow rate sensor
- H82** Low pressure transmitter
- H83** High pressure transmitter
- H85** Hot gas temperature sensor
- K25** Emergency heating element in flow
- PWT** Plate heat exchanger (for cooling)
- S11** High pressure pressostat
- Y11** Expansion valve electrical
- Y21** Defrost switching valve

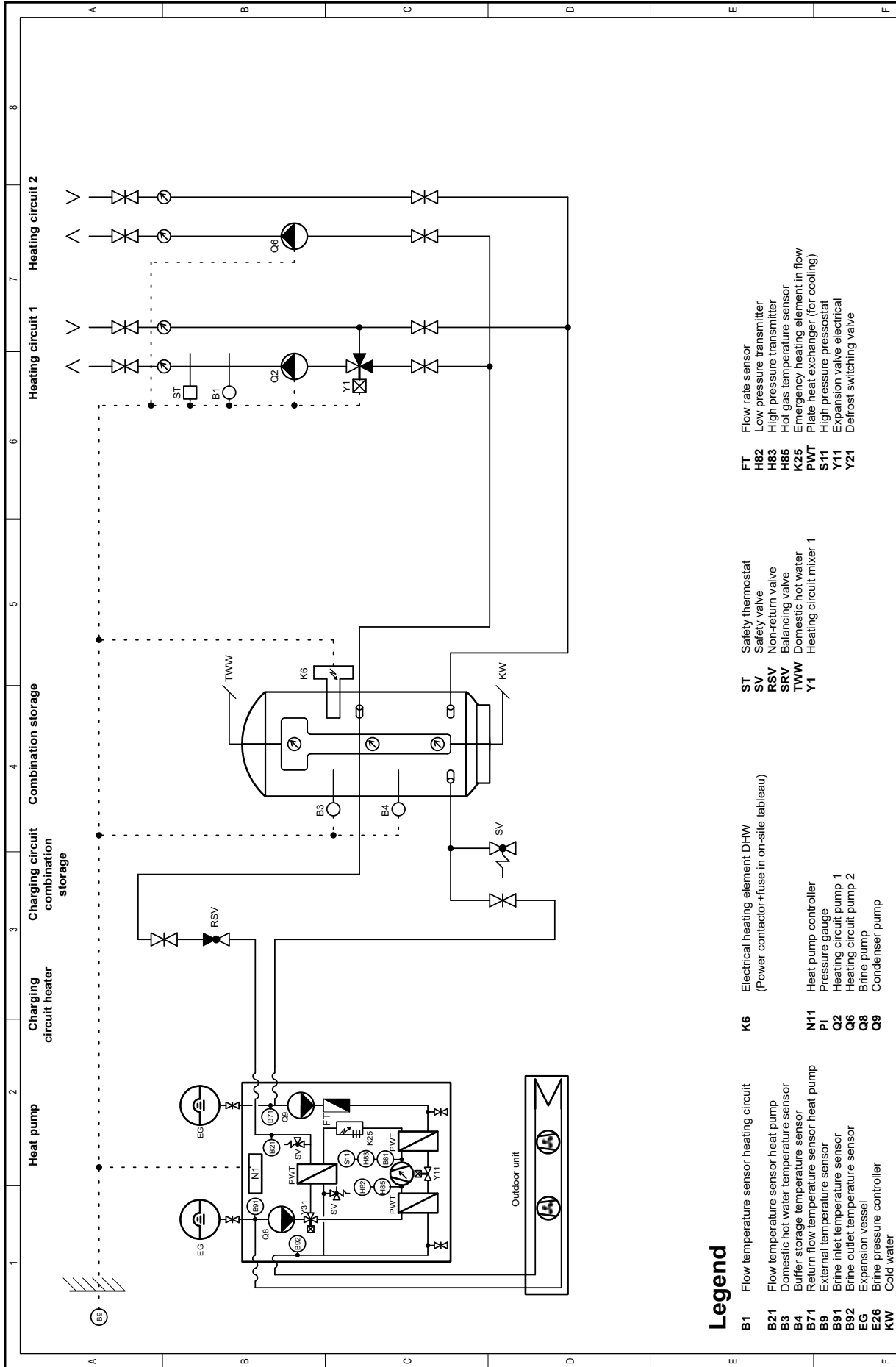
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| RESPONSIBLE  |  | CHANGE | DATE | DESIGNER | SW | STANDARD | SIA 4.10 | DATE |  | 1/2021 | DESIGNER | JAE                   | DATE | 1/2021           | DESIGNER | JAE | DATE | 1/2021 |
| AH SCI 25a 12.20.10 E2 E42<br>Subject to technical changes.  |  |        |      |          |    |          |          |      |  |        |          |                       |      |                  |          |     |      |        |
| * Installation of additional components as per local regulations and conditions.<br>* This presentation is used as planning aid for the concerned installer. |  |        |      |          |    |          |          |      |  |        |          |                       |      |                  |          |     |      |        |
| PROJECT/PROJECT NAME OF DRAWING<br>AH_SCI 25a  |  |        |      |          |    |          |          |      |  |        |          | PROJECT/MANAGER<br>PM |      | SHEET<br>No. 008 |          |     |      |        |







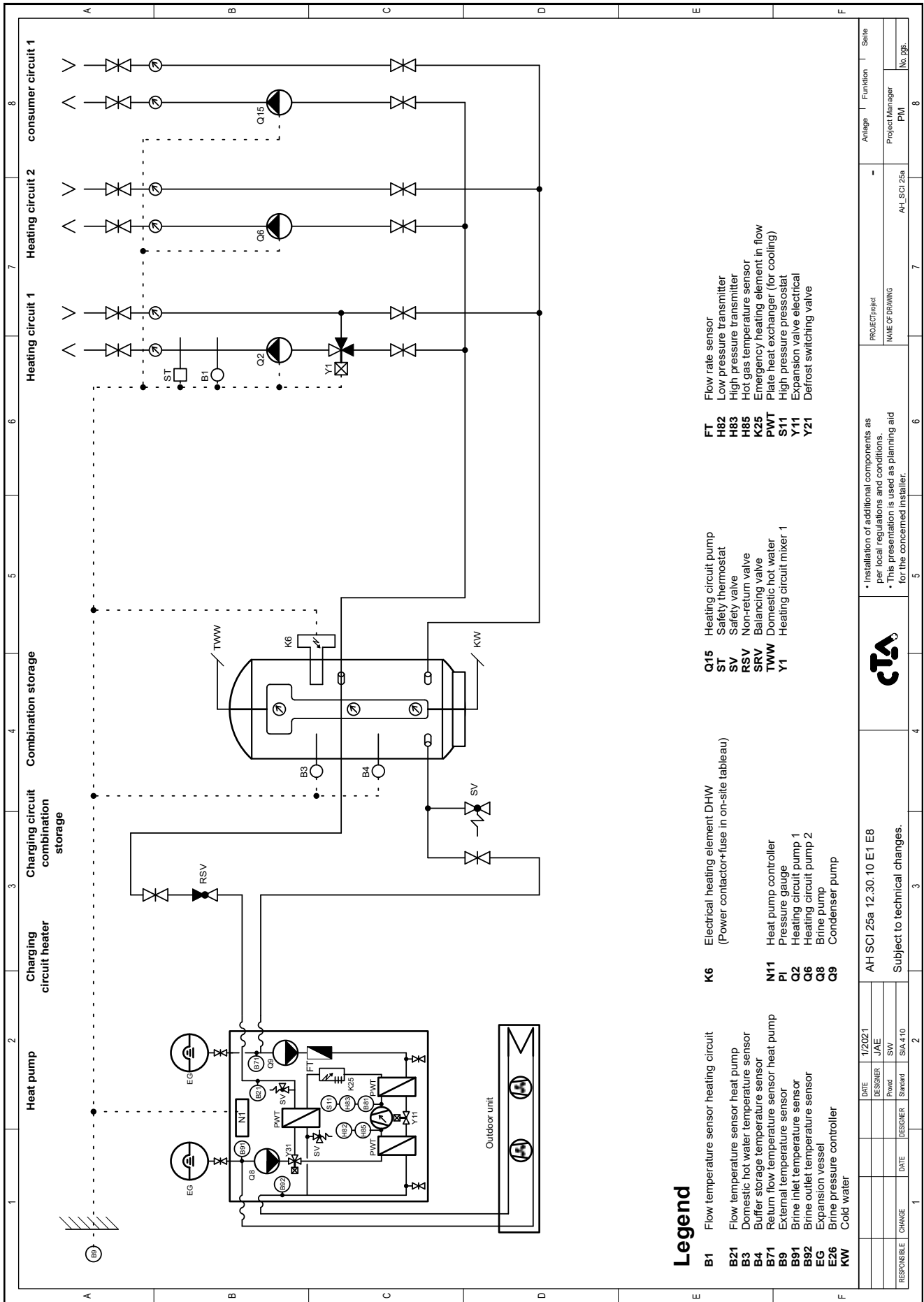




### Legend

- 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
- Q8** Heating circuit pump 2
- Q9** Brine pump
- Q9** Condenser pump
- RSV** Safety thermostat
- RSV** Safety valve
- RSV** Non-return valve
- ST** Balancing valve
- TWW** Domestic hot water
- Y1** Heating circuit mixer 1
- Y2** Heating circuit mixer 2
- FT** Flow rate sensor
- H82** Low pressure transmitter
- H83** High pressure transmitter
- H85** Hot gas temperature sensor
- K25** Emergency heating element in flow
- PWT** Plate heat exchanger (for cooling)
- S11** High pressure pressostat
- Y11** Expansion valve electrical
- Y21** Derrost switching valve

|                               |         |                 |                 |                 |          |          |   |
|-------------------------------|---------|-----------------|-----------------|-----------------|----------|----------|---|
| AH SCI 25a 12.30.10 E1        |         | AH SCI 25a      |                 | -               |          | -        |   |
| Subject to technical changes. |         | AH SCI 25a      |                 | -               |          | -        |   |
| DATE                          | 1/2021  | PROJECT         | Project         | ANLAGE          | Funktion | Seite    | 8 |
| DESIGNER                      | JAE     | NAME OF DRAWING | Project Manager | Project Manager | PM       | No. pgs. | 8 |
| PROVED                        | SW      |                 |                 |                 |          |          |   |
| DESIGNER                      | Shahid  |                 |                 |                 |          |          |   |
| STANDARD                      | SIA 410 |                 |                 |                 |          |          |   |

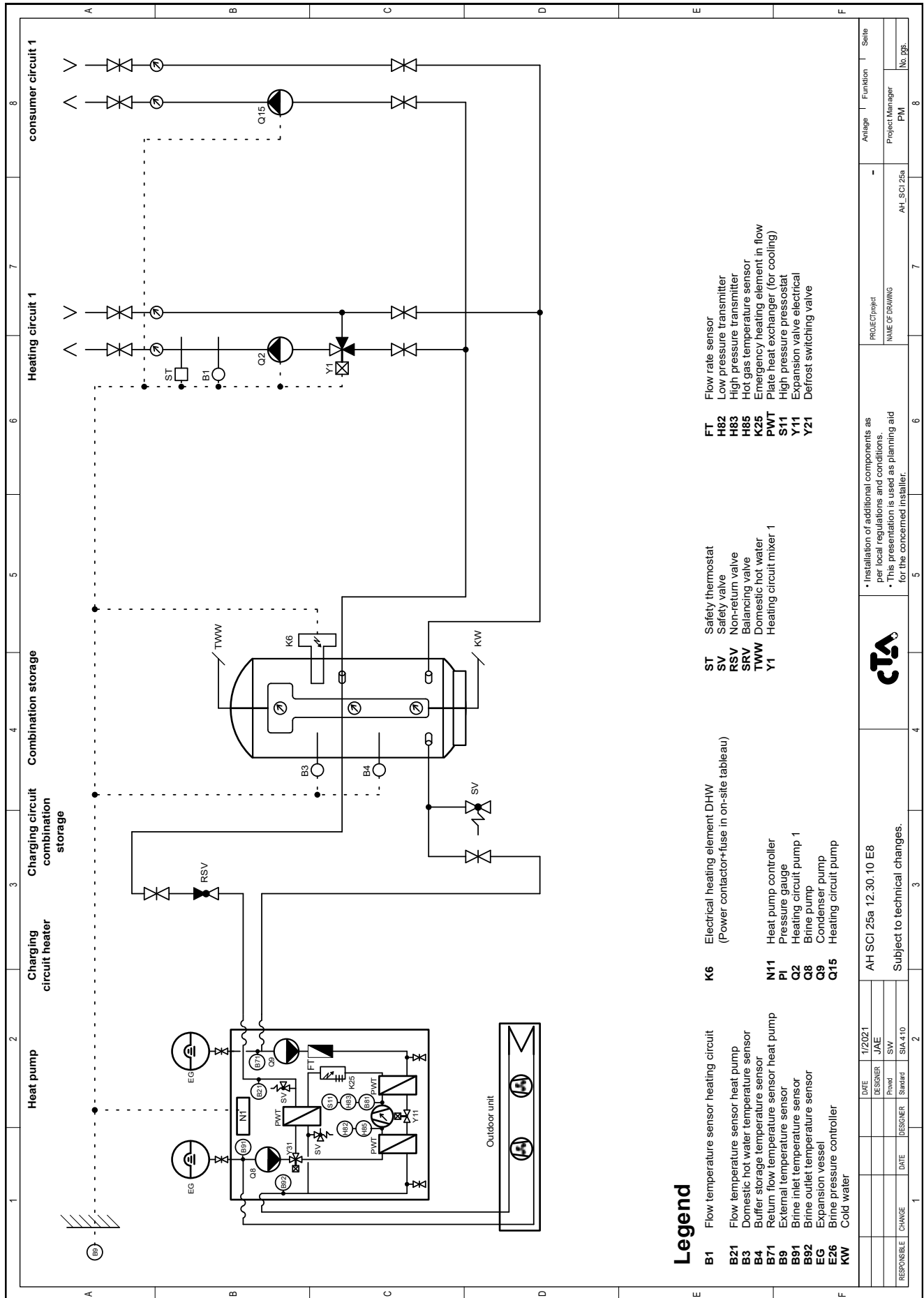


### Legend

- 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
- Q15** Heating circuit pump
- ST** Safety thermostat
- SV** Safety valve
- RSV** Non-return valve
- TRW** Balancing valve
- TWW** Domestic hot water
- Y1** Heating circuit mixer 1
- FT** Flow rate sensor
- H82** Low pressure transmitter
- H83** High pressure transmitter
- H85** Hot gas temperature sensor
- K25** Emergency heating element in flow
- PWT** Plate heat exchanger (for cooling)
- S11** High pressure pressostat
- Y11** Expansion valve electrical
- Y21** Derrost switching valve

|             |        |      |          |  |          |          |  |
|-------------|--------|------|----------|--|----------|----------|--|
|             |        |      |          |  |          |          |  |
| RESPONSIBLE | CHANGE | DATE | DESIGNER | PROVID   | STANDARD | SIA 4.10 |  |
|             |        |      |          |  |          |          |  |
|             |        |      |          | <b>CTA</b>   |          |          |  |
|             |        |      |          | <ul style="list-style-type: none"> <li>• Installation of additional components as per local regulations and conditions.</li> <li>• This presentation is used as planning aid for the concerned installer.</li> </ul> |          |          |  |
|             |        |      |          | AH SCI 25a 12.30.10 E1 E8<br>Subject to technical changes.   |          |          |  |
|             |        |      |          | PROJECT/project<br>NAME OF DRAWING<br>AH_SCI 25a   |          |          |  |
|             |        |      |          | ANTIAGE / Funktion<br>Project Manager<br>PM  |          |          |  |
|             |        |      |          | No. DRS.   |          |          |  |





### Legend

- B1** Flow temperature sensor heating circuit
- B21** Flow temperature sensor heat pump
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- 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
- Q8** Brine pump
- Q9** Condenser pump
- Q15** Heating circuit pump
- ST** Safety thermostat
- SV** Safety valve
- RSV** Non-return valve
- SRV** Balancing valve
- TWW** Domestic hot water
- Y1** Heating circuit mixer 1
- FT** Flow rate sensor
- H82** Low pressure transmitter
- H83** High pressure transmitter
- H85** Hot gas temperature sensor
- K25** Emergency heating element in flow
- PWT** Plate heat exchanger (for cooling)
- S11** High pressure pressostat
- Y21** Expansion valve electrical
- Y21** Derrost switching valve

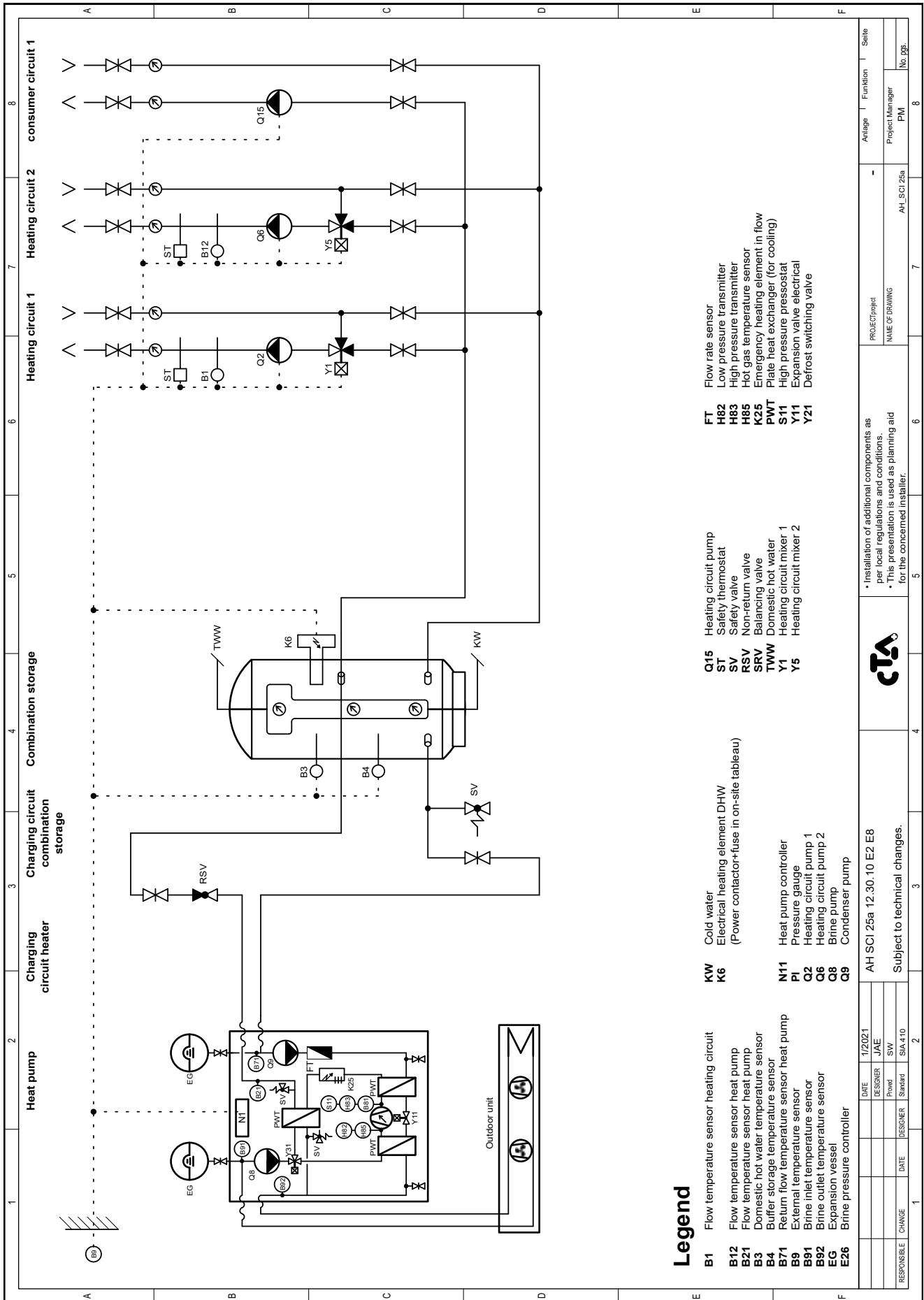
\* Installation of additional components as per local regulations and conditions.  
 \* This presentation is used as planning aid for the concerned installer.



AH SCI 25a 12.30.10 E8  
 Subject to technical changes.

| RESPONSIBLE | CHANGE | DATE | DESIGNER | PROVED | STANDARD | SIA 4.10 |
|-------------|--------|------|----------|--------|----------|----------|
|             |        |      |          |        |          |          |

| PROJECT/PROJECT | ANTHAGE    | FUNKTION | SELLE |
|-----------------|------------|----------|-------|
| NAME OF DRAWING | AH_SCI 25a | PM       | PM    |



**Legend**

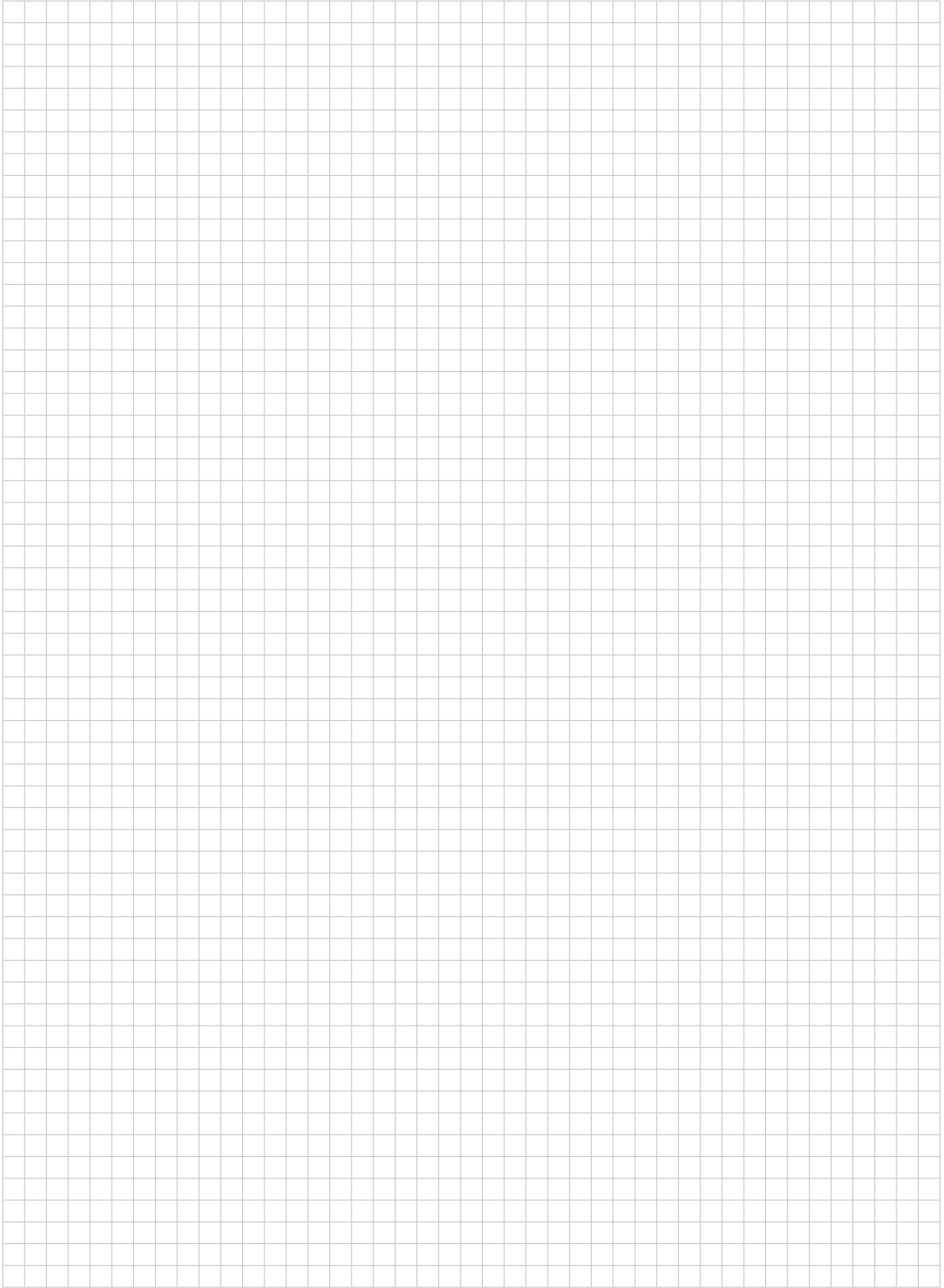
- B1** Flow temperature sensor heating circuit
- B12** Flow temperature sensor heat pump
- B21** Flow temperature sensor heat pump
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- E26** Brine pressure controller
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- H82** Low pressure transmitter
- H83** High pressure transmitter
- H85** Hot gas temperature sensor
- K25** Emergency heating element in flow
- PWT** Plate heat exchanger (for cooling)
- S11** High pressure pressostat
- Y21** Expansion valve electrical
- Y21** Defrost switching valve
- Q15** Heating circuit pump
- ST** Safety thermostat
- SV** Safety valve
- RSV** Non-return valve
- TRW** Balancing valve
- TWW** Domestic hot water
- Y1** Heating circuit mixer 1
- Y5** Heating circuit mixer 2
- 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

|                           |  |                               |      |            |        |          |          |                 |  |                 |          |     |        |                 |          |          |      |                 |        |                 |     |        |    |                 |          |                 |  |                 |          |                 |        |                 |          |                 |  |
|---------------------------|--|-------------------------------|------|------------|--------|----------|----------|-----------------|--|-----------------|----------|-----|--------|-----------------|----------|----------|------|-----------------|--------|-----------------|-----|--------|----|-----------------|----------|-----------------|--|-----------------|----------|-----------------|--------|-----------------|----------|-----------------|--|
| RESPONSIBLE               |  | CHANGE                        | DATE | DESIGNER   | PROVID | STANDARD | SIA 4 10 | DATE            |  | 1/2021          | DESIGNER | JAE | PROVID | SW              | STANDARD | SIA 4 10 | DATE |                 | 1/2021 | DESIGNER        | JAE | PROVID | SW | STANDARD        | SIA 4 10 | DATE            |  | 1/2021          | DESIGNER | JAE             | PROVID | SW              | STANDARD | SIA 4 10        |  |
| AH SCI 25a 12.30.10 E2 E8 |  | Subject to technical changes. |      | AH SCI 25a |        | -        |          | PROJECT/PROJECT |  | PROJECT/PROJECT |          | -   |        | PROJECT/PROJECT |          | -        |      | PROJECT/PROJECT |        | PROJECT/PROJECT |     | -      |    | PROJECT/PROJECT |          | PROJECT/PROJECT |  | PROJECT/PROJECT |          | PROJECT/PROJECT |        | PROJECT/PROJECT |          | PROJECT/PROJECT |  |
| AH SCI 25a                |  | -                             |      | -          |        | -        |          | -               |  | -               |          | -   |        | -               |          | -        |      | -               |        | -               |     | -      |    | -               |          | -               |  | -               |          | -               |        | -               |          | -               |  |
| Project Manager           |  | PM                            |      | -          |        | -        |          | -               |  | -               |          | -   |        | -               |          | -        |      | -               |        | -               |     | -      |    | -               |          | -               |  | -               |          | -               |        | -               |          | -               |  |
| No. DRS                   |  | -                             |      | -          |        | -        |          | -               |  | -               |          | -   |        | -               |          | -        |      | -               |        | -               |     | -      |    | -               |          | -               |  | -               |          | -               |        | -               |          | -               |  |



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





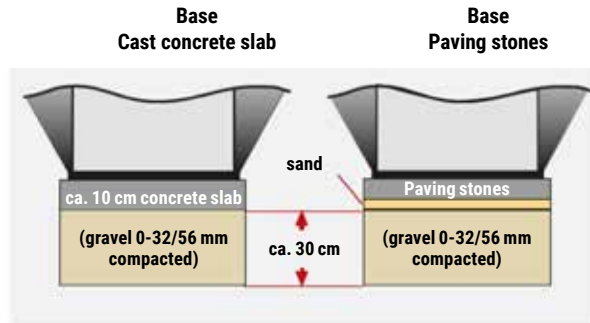
# Installation plans

## Aeroheat Inverta AH SCI 25a

### Installation plans outdoor installation

#### Ground

- The heat pump must be standing on a permanently fixed even and level surface. Installation on a cast concrete slab or on paving stones that are laid on a frost protection layer is recommended.
- The heat pump must be placed completely and level on the base.
- To avoid sound bridges, the heat pump base must be attached over the whole contour.
- The ground of the installation place must be permanently fixed.



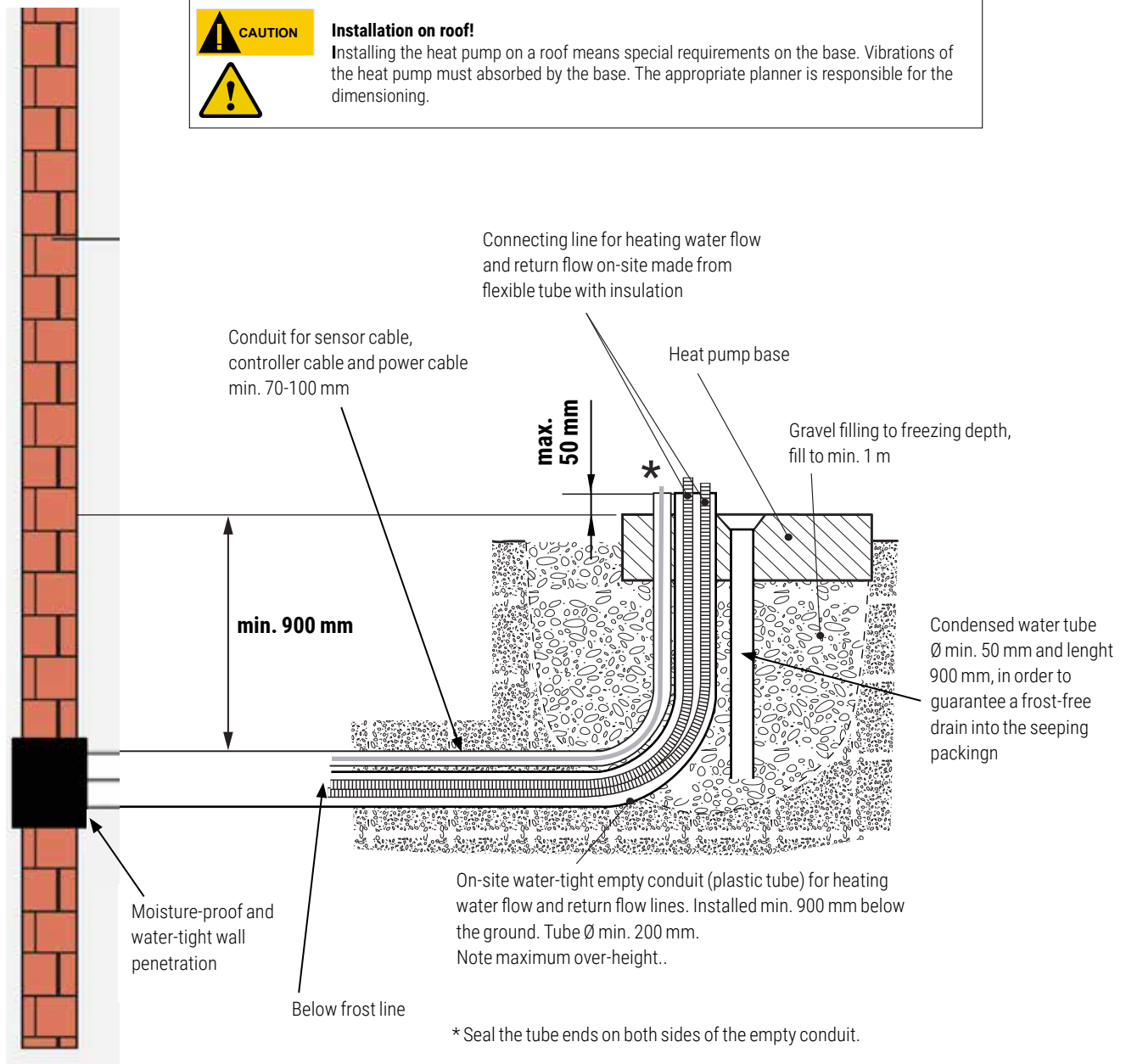
#### Attention!

The paving stones must be suitable for the weight of the respective unit.



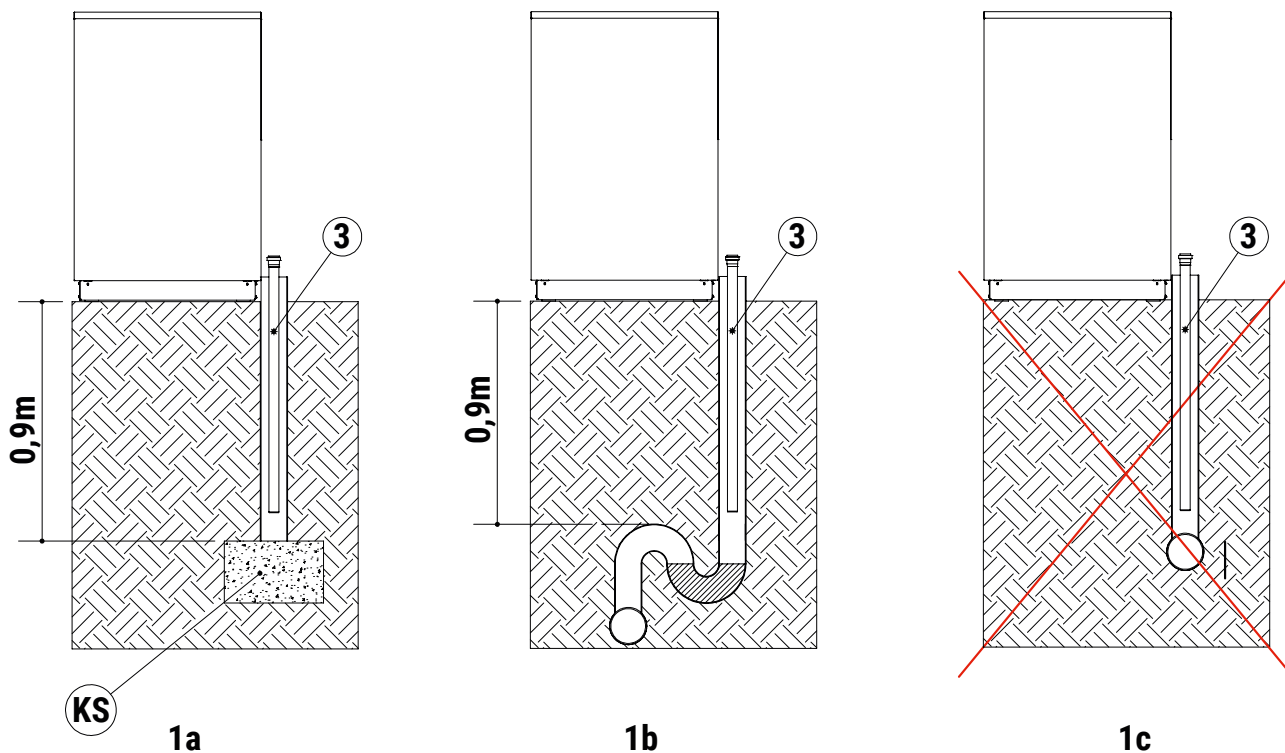
#### Installation on roof!

Installing the heat pump on a roof means special requirements on the base. Vibrations of the heat pump must be absorbed by the base. The appropriate planner is responsible for the dimensioning.



# Installation plans Aeroheat Inverta AH SCI 25a

## External condensate line connection



### Legend

- KS Gravel layer for holding up to 50 litres condensate per day as buffer zone for seepage  
3 Condensate drain pipe DN 40 (on site)

#### NOTICE



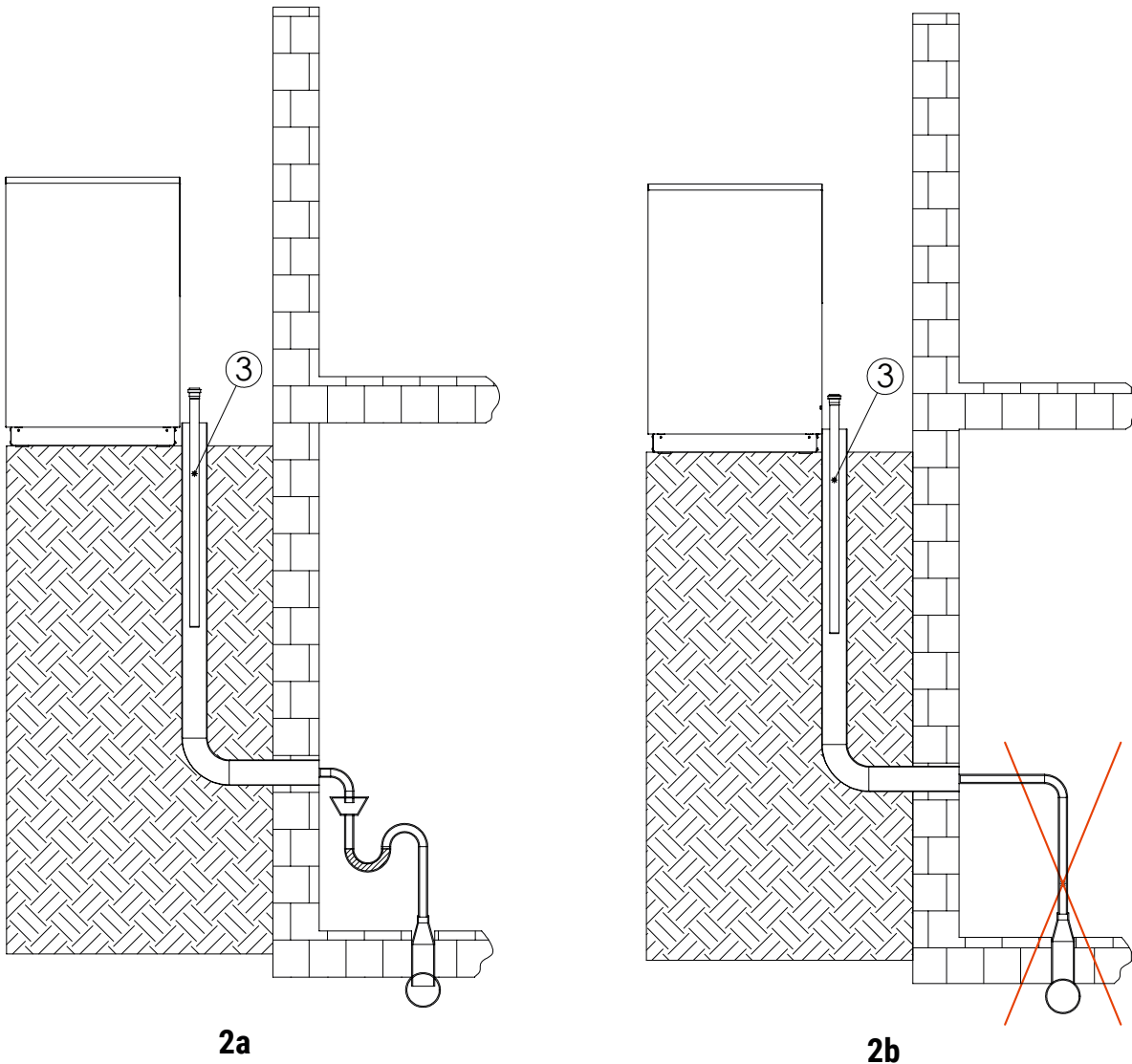
#### Important

If the condensate is discharged directly into a sewage or rainwater pipe, a waste trap must be applied (figure 1b). A vertically installed plastic pipe must be used above the ground. In addition, no non-return valves or similar must be installed in the drain pipe. The condensate drain pipe must be connected in such a way that the condensate drain pipe can flow freely into the main pipe. If the condensate is discharged into drains or the sewage system, ensure installation with a gradient.

It must be ensured that the condensate is discharged frost-free in all cases (figure 1a and figure 1b).

# Installation plans Aeroheat Inverta AH SCI 25a

## Internal condensate line connection



### Legend

3 Condensate drain pipe DN 40 (on site)

#### NOTICE



#### Important

If the condensate line is connected inside a building, a waste trap must be installed (see figure 2a). No additional drain pipes may be connected to the condensate drain pipe of the heat pump.

It must be ensured that the condensate is discharged frost-free in all cases (figure 2a).

# Installation plans

## Aeroheat Inverta AH SCI 25a

### Sound Aeroheat heat pumps

All CTA heat pumps are dimensioned for an exceptionally low noise operation. Despite this, the installation location of the heat pumps and the distance to neighbouring buildings must be selected in such a manner that individual perceptions are considered. With regard to noise pollution, the following points should be observed:

Im Hinblick auf eine Vermeidung von Geräuschbelästigungen sollten folgende Punkte beachtet werden:

- Installing the heat pumps directly on or underneath windows should be avoided.
- Installation in niches, corners of walls or between two walls has an effect of increasing the noise level by reflection and is therefore not recommended.
- Free spaces around the heat pump base leads to sound bridges with an increase in the sound level.
- Do not install the heat pump directly on neighbouring buildings.

#### NOTICE

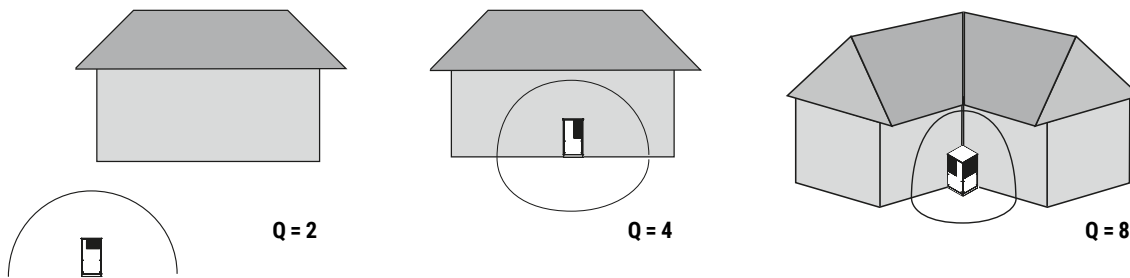


#### Note

Other constellations, adjoining other buildings or even reflecting surfaces may lead to a level increase. An exact specification of each sound pressure level is possible only through a measurement spot when the heat pumps is already installed.

The sound pressure levels for the respective installation situation can be calculated using the Cercle Bruit Switzerland form «Lärmschutz-nachweis für Luft/Wasser-Wärmepumpen» (noise protection certificate for air/water heat pumps).

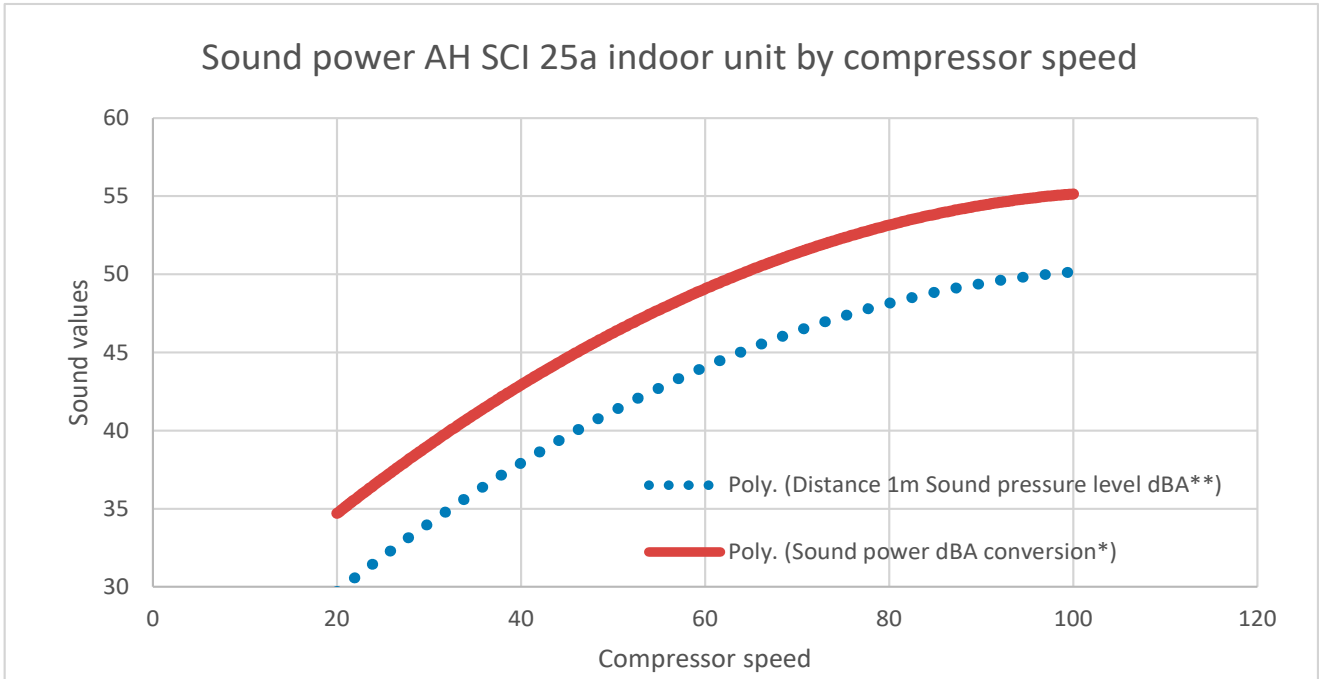
#### The directivity factor Q for the different installation variants:



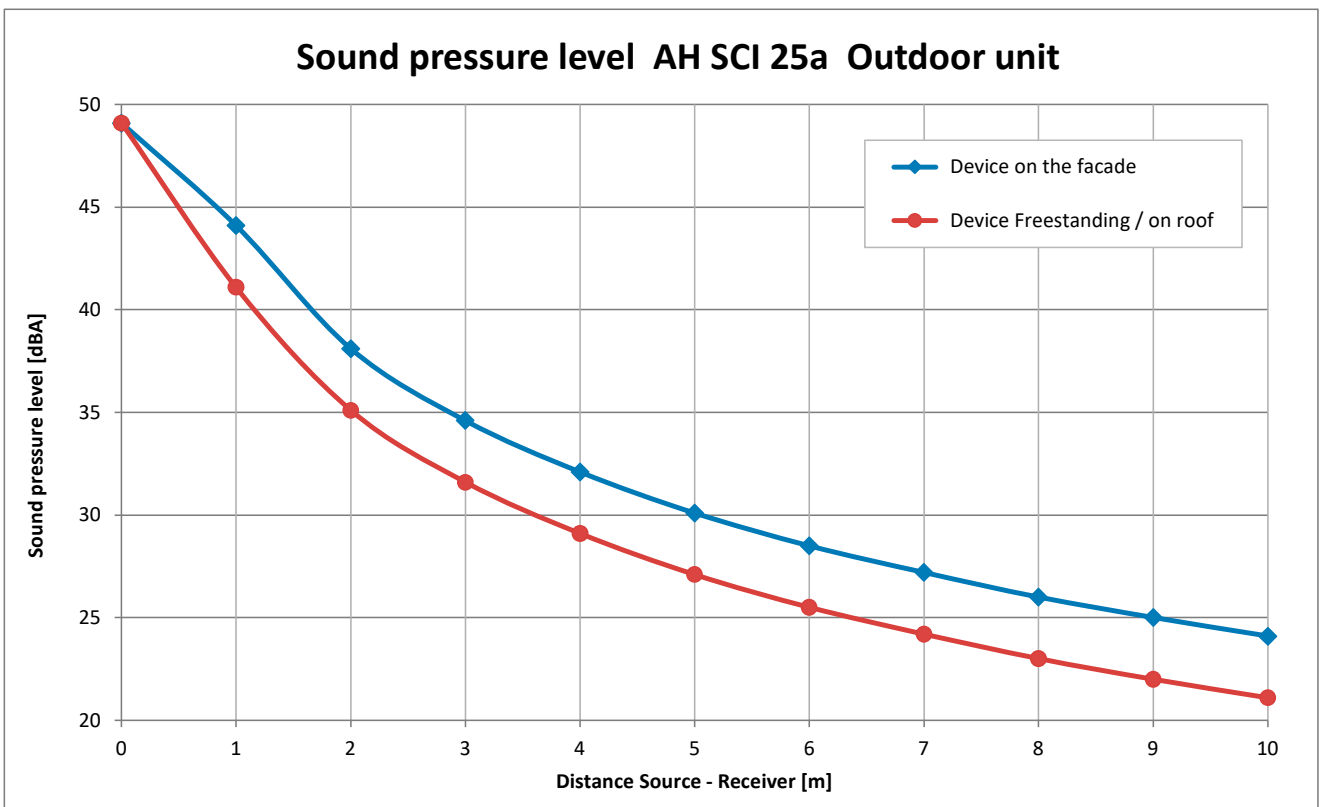
# Installation plans

## Aeroheat Inverta AH SCI 25a

### Sound pressure level indoor unit AH SCI 25a



### Sound pressure level outdoor unit AH SCI 25a





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