

## Základné údaje o výkone - WAMAK AiWa 18 EVI H Out

| Vykurovanie - EN 14511                                       |                    |                 |
|--|--------------------|-----------------|
| Tepelný výkon [kW]   | A7 / W35           | 20.7            |
|  | A2 / W35           | 17.6            |
|  | A-7 / W34          | 14.8            |
| Elektrický príkon [kW]                                       | A7 / W35           | 4.5             |
|  | A2 / W35           | 4.6             |
|  | A-7 / W34          | 4.4             |
| Tepelná účinnosť [COP]                                       | A7 / W35           | 4.57            |
|  | A2 / W35           | 3.87            |
|  | A-7 / W34          | 3.32            |
| Sezónna tepelná účinnosť vykurovania - SCOP EN 14825         |                    |                 |
| Stredná klim. zóna / Nízka teplota [35°C]                    | SCOP               | 4.37            |
|  | $\eta$ [%]         | 174.8           |
|  | Label              | A+++            |
|  | Qhe [kWh]          | 34502.2         |
|  | Pdesignh [kW]      | 16.7            |
|  | Tbivalent [°C]     | -7              |
| Chladenie  |                    |                 |
| Chladiaci výkon - [kW]                                       | A35 / W23-18       | 19.9            |
|  | A25 / W23-18       | 20.9            |
|  | A35 / W12-7        | 14.8            |
|  | A25 / W12-7        | 14.8            |
| Sezónna účinnosť chladenia - SEER EN 14825                   |                    |                 |
| [ W 23 / 18°C ]  | SEER               | 4.44            |
|  | Qce [kWh]          | 8880.0          |
|  | $\eta_c$ [%]       | 177.4           |
| Zvuk EN 12102  |                    |                 |
| Zvuk - výkon - Lw  | dB(A)              | 66.9            |
| Zvuk - tlak - Lp   | 1 m dB(A)          | 58.9            |
|  | 5 m dB(A)          | 44.9            |
|  | 10 m dB(A)         | 38.9            |
| Strojné a prevádzkové informácie                             |                    |                 |
| Typ kompresoru (3~ 400/50)                                   | SCROLL / 1 /       | Zap/Vyp         |
| Chladivo   | R410A (GWP - 2088) | 6 kg            |
| Prevádzkové hraničné teploty vykurovania - (min / max ) [°C] |                    | 25 / <b>65</b>  |
| Prevádzkové hraničné teploty zdroja - (min / max ) [°C]      |                    | <b>-22</b> / 40 |
| Váha zariadenia  |                    | 300 kg          |

## Hlavné technické údaje - WAMAK AiWa 18 EVI H Out

| Označenie krytovania                                  |                          |                   | AiWa-O-1200                                  |   |                 | Údaje strany odovzdania tepelnej energie |  |  |
|---|--------------------------|-------------------|--|---|-----------------|--|--|--|
| Základné rozmery                                      | Výška [mm]               | 1760              | Prevádzkové hraničné teploty vykurovania     | MAX [°C]                                | 65              |  |  |  |
|   | Šírka [mm]               | 1420              |  | MIN [°C]                                | 25              |  |  |  |
|   | Dĺžka [mm]               | 660               |  | viac vid. diagram prevádzkových limitov |                 |  |  |  |
| Váha zariadenia [kg]                                  | 300                      |                   | Kondenzátor                                  | Pripojovacia dimenzia                   | 1.1/4 "         |  |  |  |
| Farba krytovania                                      | Sivá                     |                   |  | Typ                                     | BPHE            |  |  |  |
| IP trieda krytovania                                  | IP44                     |                   |  | Počet                                   | 1               |  |  |  |
| Chladivový okruh                                      |                          |                   |  | Materiál                                | AISI 316        |  |  |  |
| Kompresor   | Typ                      | Scroll            | Maximálny prevádzkový tlak - chladivo [bar]  | 45                                      |                 |  |  |  |
|   | Výkonové stupňe          | 1                 | Maximálny prevádzkový tlak - Voda [bar]      | 6                                       |                 |  |  |  |
|   | Zap/Vyp                  |                   | Testovací pretlak [bar]                      | 70                                      |                 |  |  |  |
|   | Účinník Cosφ             | 0.64              | Teplonosné médium                            | Voda                                    |                 |  |  |  |
|   | Odpor vynutia kompresora | 1.79 Ohm          | Objemový prietok @ dT 5K (nom) - Voda [m3/h] | 3.59                                    |                 |  |  |  |
| Chladivo  |                          | R410A             | Vnútorná tlaková strata - Voda [kPa]         | 15                                      |                 |  |  |  |
|   | Objem                    | 6 kg              | ECM nízkoenergetické čerpadlo spotreby       | UPMXL GEO 32-125                        |                 |  |  |  |
|   | GWP                      | 2088              | Snímač prietoku strana spotreby - analog     | 0..10V                                  |                 |  |  |  |
|   | Bezpečnostná trieda      | A1                | Teplotný spád                                | @ 35°C (nom)                            | 5 K             |  |  |  |
| Typ oleja v okruhu                                    | POE RL32-3MAF            |                   |  | @ 55°C                                  | 8 K             |  |  |  |
|   | Objem oleja              | 1.89 L            |  | @ 65°C                                  | 10 K            |  |  |  |
| Maximálny tlak chladiva [bar]                         |                          | 45                | Údaje strany odberu obnoviteľnej energie     |   |                 |  |  |  |
|   | PED trieda               | 1                 | Prevádzkové hraničné teploty zdroja          | MIN [°C]                                | -22             |  |  |  |
| EVI - vstrek chladiva s ekonomizérom                  |                          |                   |  | MAX [°C]                                | 40              |  |  |  |
| APS systém podchladenia chladiva                      |                          |                   | viac vid. diagram prevádzkových limitov      |   |                 |  |  |  |
| Reverzibilný chod (chladenie)                         |                          |                   | Výparník                                     | Typ                                     | Cu-coil /Al-fin |  |  |  |
| Reverzibilné odtavenie horúcimi parami                |                          |                   |  | Počet                                   | 1               |  |  |  |
| Ochrana doskového výmenníka horúcimi parami HG-BYPASS |                          |                   |  | Materiál                                | Cu/Al           |  |  |  |
| Údaje elektrického pripojenia                         |                          |                   | Maximálny prevádzkový tlak - chladivo [bar]  | 28                                      |                 |  |  |  |
| Elektro napájanie [#~ V/Hz]                           | 3~ 400/50                |                   | Teplonosné médium                            | Vzduch                                  |                 |  |  |  |
| Prúd  | nominálny [A]            | 9.32              | Objemový prietok - Vzduch [m3/h]             | 6470                                    |                 |  |  |  |
|   | maximálny [A]            | 16.00             | Vnútorná tlaková strata - Vzduch [kPa]       | 0.024                                   |                 |  |  |  |
|   | štartovací [A]           | 18.9              | Teplotný spád - Vzduch                       | 7 K                                     |                 |  |  |  |
| Softštartér   | MCI 15                   |                   | Počet ventilátorov                           | 1                                       |                 |  |  |  |
| Hlavný istič - charakteristika                        | C25                      |                   | Priemer ventilátora [mm]                     | 800                                     |                 |  |  |  |
| Riadiaci systém                                       |                          |                   |  |   |                 |  |  |  |
| Hlavný regulátor                                      | SIEMENS                  | RVS 21 AVS 55.199 |  |   |                 |  |  |  |
| Rozširovací modul                                     | AVS75.3xx                | AVS75.3xx         | AVS75.372                                    |   |                 |  |  |  |
| Bus Clip-In   |                          | LPB OCI345        | Modbus OCI351                                |   |                 |  |  |  |
| Online pripojenie                                     |                          | Web server OZW672 | ToSyMo                                       |   |                 |  |  |  |
| Regulácia EEV   | 1 - EEV H/C              |                   |  |   |                 |  |  |  |

\*\*\* s príslušenstvom

# WAMAK AiWa 18 EVI H Out

## ErP (EU) No 811/2013: Technické parametre vykurovacích zariadení s tepelným čerpadlom

| Model                                     | AiWa 18 EVI H Out             |
|---|-------------------------------|
| Tepelné čerpadlo vzduch-voda              | áno                           |
| Tepelné čerpadlo soľanka-voda             | nie                           |
| Tepelné čerpadlo voda-voda                | nie                           |
| Nízkotepelné tepelné čerpadlo             | nie                           |
| Vybavené prídavným ohrievačom             | nie                           |
| Kombinované tepelné čerpadlo s ohrievačom | nie                           |
| Teplotné použitie                         | nízka teplota (35 °C - 30 °C) |
| Klimatická oblasť                         | priemerná                     |

| Položka  | Symbol | Hodnota | mj  | Položka   | Symbol     | Hodnota | mj                |
|--|--------|---------|-----|---|------------|---------|-------------------|
| Menovitý tepelný výkon pri Tdesignh  | Prated | 16.7    | kW  | Sezónna energetická účinnosť vykurovania priestoru  | ηs         | 174.8   | %                 |
| Deklarovaný výkon vykurovania pri čiastočnom zaťažení pri vnútornej teplote 20 °C a vonkajšej teplote Tj |        |         |     | Deklarovaný súčiniteľ výkonu alebo pomer primárnej energie pre čiastočné zaťaženie pri vnútornej teplote 20 °C a vonkajšej teplote Tj |            |         |                   |
| Tj = -7 °C   | Pdh    | 14.8    | kW  | Tj = -7 °C  | COPd       | 3.32    | -                 |
| Tj = +2 °C   | Pdh    | 17.5    | kW  | Tj = +2 °C  | COPd       | 4.3     | -                 |
| Tj = +7 °C   | Pdh    | 20.6    | kW  | Tj = +7 °C  | COPd       | 5.5     | -                 |
| Tj = +12 °C  | Pdh    | 24.4    | kW  | Tj = +12 °C   | COPd       | 6.8     | -                 |
| Tj = bivalentná teplota  | Pdh    | 14.5    | kW  | Tj = bivalentná teplota   | COPd       | 3.2     | -                 |
| Tj = hraničná prevádzková teplota  | Pdh    | 10.6    | kW  | Tj = hraničná prevádzková teplota   | COPd       | 2.4     | -                 |
| Bivalentná teplota   | Tbiv   | -7      | °C  | Tj = hraničná prevádzková teplota   | TOL        | -22     | °C                |
| Spotreba energie v iných ako aktívnych režimoch  |        |         |     | Medzná prevádzková teplota vykurovacej vody   | WTOL       | 65      | °C                |
| Vypnuté  | Poff   | 0.010   | kW  | Prídavný ohrievač   |            |         |                   |
| Režim vypnutia termostatu  | Pto    | 0.010   | kW  | Menovitý tepelný výkon  | Psup       | 7.4     | kW                |
| Pohotovostný režim   | Psb    | 0.010   | kW  | Typ príkonu energie   | elektrická |         |                   |
| Režim ohrevu kľukovej skrine   | Pck    | 0.050   | kW  |   |            |         |                   |
| Ostatné položky  |        |         |     |   |            |         |                   |
| Regulácia výkonu   | pevná  |         |     | Pre tepelné čerpadlá vzduch-voda: Menovitý prietok vzduchu, vonku   | -          | 6470    | m <sup>3</sup> /h |
| Úroveň akustického výkonu  |        |         |     |   |            |         |                   |
| v interiéri  | Lwa    | ---     | dB  | Pre tepelné čerpadlá voda-voda alebo soľanka-voda: Menovitý prietok soľanky alebo vody, vonkajší výmenník tepla                       | -          | ---     | m <sup>3</sup> /h |
| vonku  | Lwa    | 67      | dB  |   |            |         |                   |
| Ročná spotreba energie   | QHE    | 34502.2 | kWh |   |            |         |                   |

**Kontaktné údaje:** WAMAK, s.r.o., Orovnica 252, 96652, Orovnica, Slovakia, info@wamak.sk

# WAMAK AiWa 18 EVI H Out

## ErP (EU) No 811/2013: Technické parametre vykurovacích zariadení s tepelným čerpadlom

| Model                                     | AiWa 18 EVI H Out            |
|---|------------------------------|
| Tepelné čerpadlo vzduch-voda              | áno                          |
| Tepelné čerpadlo soľanka-voda             | nie                          |
| Tepelné čerpadlo voda-voda                | nie                          |
| Nízkotepelné tepelné čerpadlo             | nie                          |
| Vybavené prídavným ohrievačom             | nie                          |
| Kombinované tepelné čerpadlo s ohrievačom | nie                          |
| Teplotné použitie                         | stredá teplota (55°C - 47°C) |
| Klimatická oblasť                         | priemerná                    |

| Položka  | Symbol          | Hodnota | mj  | Položka   | Symbol     | Hodnota | mj                |
|--|-----------------|---------|-----|---|------------|---------|-------------------|
| Menovitý tepelný výkon pri Tdesignh  | Prated          | 17.8    | kW  | Sezónna energetická účinnosť vykurovania priestoru  | $\eta_s$   | 136.2   | %                 |
| Deklarovaný výkon vykurovania pri čiastočnom zaťažení pri vnútornej teplote 20 °C a vonkajšej teplote Tj |                 |         |     | Deklarovaný súčiniteľ výkonu alebo pomer primárnej energie pre čiastočné zaťaženie pri vnútornej teplote 20 °C a vonkajšej teplote Tj |            |         |                   |
| Tj = -7 °C   | Pdh             | 15.6    | kW  | Tj = -7 °C  | COPd       | 2.31    | -                 |
| Tj = +2 °C   | Pdh             | 17.8    | kW  | Tj = +2 °C  | COPd       | 3.3     | -                 |
| Tj = +7 °C   | Pdh             | 20.7    | kW  | Tj = +7 °C  | COPd       | 4.5     | -                 |
| Tj = +12 °C  | Pdh             | 24.3    | kW  | Tj = +12 °C   | COPd       | 6.0     | -                 |
| Tj = bivalentná teplota  | Pdh             | 15.4    | kW  | Tj = bivalentná teplota   | COPd       | 2.1     | -                 |
| Tj = hraničná prevádzková teplota  | Pdh             | 11.3    | kW  | Tj = hraničná prevádzková teplota   | COPd       | 1.7     | -                 |
| Bivalentná teplota   | Tbiv            | -7      | °C  | Tj = hraničná prevádzková teplota   | TOL        | -22     | °C                |
| Spotreba energie v iných ako aktívnych režimoch  |                 |         |     | Medzná prevádzková teplota vykurovacej vody   | WTOL       | 65      | °C                |
| Vypnuté  | Poff            | 0.010   | kW  | Prídavný ohrievač   |            |         |                   |
| Režim vypnutia termostatu  | Pto             | 0.010   | kW  | Menovitý tepelný výkon  | Psup       | 7.4     | kW                |
| Pohotovostný režim   | Psb             | 0.010   | kW  | Typ príkonu energie   | elektrická |         |                   |
| Režim ohrevu kľukovej skrine   | Pck             | 0.050   | kW  |   |            |         |                   |
| Ostatné položky  |                 |         |     |   |            |         |                   |
| Regulácia výkonu   | pevná           |         |     | Pre tepelné čerpadlá vzduch-voda: Menovitý prietok vzduchu, vonku   | -          | 6470    | m <sup>3</sup> /h |
| Úroveň akustického výkonu  |                 |         |     | Pre tepelné čerpadlá voda-voda alebo soľanka-voda: Menovitý prietok soľanky alebo vody, vonkajší výmenník tepla                       | -          | ---     | m <sup>3</sup> /h |
| v interiéri  | Lwa             | ---     | dB  |   |            |         |                   |
| vonku  | Lwa             | 67      | dB  |   |            |         |                   |
| Ročná spotreba energie   | Q <sub>HE</sub> | 36774.8 | kWh |   |            |         |                   |

**Kontaktné údaje:** WAMAK, s.r.o., Orovnica 252, 96652, Orovnica, Slovakia, info@wamak.sk



**ENERG** Y IIA  
 енергия - ενεργεια IE IA



AiWa 18 EVI H Out



55 °C

35 °C



Speaker icon  
--- dB

Microphone icon  
67 dB

|      |      |
|------|------|
| ■ 19 | ■ 18 |
| ■ 18 | ■ 17 |
| ■ 18 | ■ 16 |
| kW   | kW   |

2019

811/2013

AiWa 18 EVI H Out

ErP Data

|                     | 55 °C      | 35 °C       |
|---------------------|------------|-------------|
| Energy class        | <b>A++</b> | <b>A+++</b> |
| $\eta$ [%]          | 136.2      | 174.8       |
| $P_{rated}$ [kW]    | 18         | 17          |
| $Q_{HE}$ [kWh/y]    | 36775      | 34503       |
| SCOP [-]            | 3.40       | 4.37        |
| $T_{bivalent}$ [°C] | -7         | -7          |

CONTROLLER



+ QAA55/75 class VII 3.5% ↓  
 - QAA55/75 class III 1.5% ↓

**Tepelný výkon - prevádzkové dáta**

Version: v2024.004-AW

**Stredná klim. zóna / Nízka teplota [35°C]**

ZHI18K1P-TFM\_R410A\_1\_AW

| Prevádzkové podmienky |             | Qh   | P   | COP  |
|-----------------------|-------------|------|-----|------|
| 1                     | A7 / W30-35 | 20.7 | 4.5 | 4.57 |
| 2                     | A2 / W35    | 17.6 | 4.6 | 3.87 |
| 3                     | A-22 / W35  | 10.6 | 4.4 | 2.38 |
| A                     | A-7 / W34   | 14.8 | 4.4 | 3.32 |
| B                     | A2 / W30    | 17.5 | 4.1 | 4.31 |
| C                     | A7 / W27    | 20.6 | 3.8 | 5.45 |
| D                     | A12 / W24   | 24.4 | 3.6 | 6.84 |
| E                     | A-10 / W35  | 14.5 | 4.5 | 3.18 |
| F                     | A-7 / W34   | 14.8 | 4.4 | 3.32 |

| SCOP DATA EN 14825:2018                          |          |
|--|----------|
| <b>Stredná klim. zóna / Nízka teplota [35°C]</b> |          |
| SCOPon   | 4.50     |
| SCOPnet  | 4.54     |
| SCOP   | 4.37     |
| η [%]  | 174.80   |
| Label  | A+++     |
| Qh [ kWh ]                                       | 34502.20 |
| Pdesignh [ kW ]                                  | 16.7     |
| Tbivalent [ °C ]                                 | -7.00    |

**Stredná klim. zóna / Stredná teplota [55°C]**

| Prevádzkové podmienky |             | Qh   | P   | COP  |
|-----------------------|-------------|------|-----|------|
| 1                     | A7 / W47-55 | 21.5 | 7.5 | 2.88 |
| 2                     | A2 / W55    | 18.5 | 7.4 | 2.51 |
| 3                     | A-22 / W55  | 11.3 | 6.2 | 1.69 |
| A                     | A-7 / W52   | 15.6 | 6.7 | 2.31 |
| B                     | A2 / W42    | 17.8 | 5.4 | 3.32 |
| C                     | A7 / W36    | 20.7 | 4.6 | 4.47 |
| D                     | A12 / W30   | 24.3 | 4.0 | 6.04 |
| E                     | A-10 / W55  | 15.4 | 7.2 | 2.14 |
| F                     | A-7 / W55   | 15.8 | 7.2 | 2.18 |

| SCOP DATA EN 14825:2018                            |          |
|--|----------|
| <b>Stredná klim. zóna / Stredná teplota [55°C]</b> |          |
| SCOPon   | 3.48     |
| SCOPnet  | 3.51     |
| SCOP   | 3.40     |
| η [%]  | 136.16   |
| Label  | A++      |
| Qh [ kWh ]   | 36774.80 |
| Pdesignh [ kW ]                                    | 17.8     |
| Tbivalent [ °C ]                                   | -7.00    |

**Chladiaci výkon - prevádzkové dáta**

**Nízkoteplotné chladenie W 12 / 7°C**

| Prevádzkové podmienky |             | Qc   | P   | EER  |
|-----------------------|-------------|------|-----|------|
| A                     | A35 / W12-7 | 14.8 | 5.5 | 2.69 |
| B                     | A30 / W12-7 | 15.2 | 4.9 | 3.12 |
| C                     | A25 / W12-7 | 15.6 | 4.3 | 3.59 |
| D                     | A20 / W12-7 | 15.9 | 3.9 | 4.11 |

| SEER DATA EN 14825:2018 [ W 12 / 7°C ] |         |
|--|---------|
| SEERon                                 | 3.50    |
| SEER                                   | 3.36    |
| Qc [ kWh ]                             | 8880.00 |
| η [%]                                  | 134.20  |

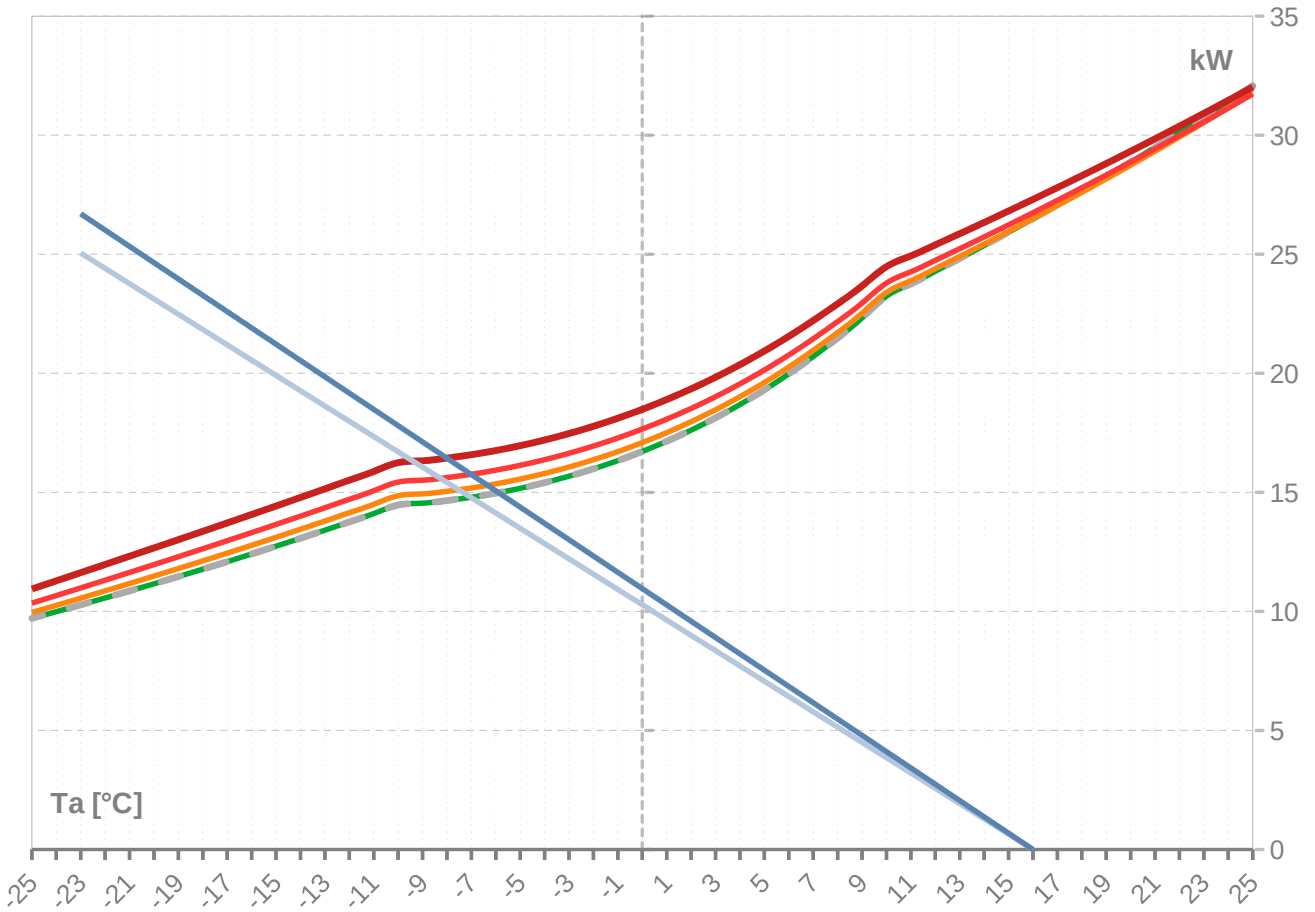
**Plošné chladenie W 23 / 18°C**

| Prevádzkové podmienky |              | Qc   | P   | EER  |
|-----------------------|--------------|------|-----|------|
| A                     | A35 / W23-18 | 19.9 | 5.5 | 3.61 |
| B                     | A30 / W23-18 | 20.4 | 4.5 | 4.18 |
| C                     | A25 / W23-18 | 20.9 | 4.0 | 4.82 |
| D                     | A20 / W23-18 | 21.3 | 3.6 | 5.51 |

| SEER DATA EN 14825:2018 [ W 23 / 18°C ] |         |
|---|---------|
| SEERon                                  | 4.69    |
| SEER                                    | 4.44    |
| Qc [ kWh ]                              | 8880.00 |
| η [%]                                   | 177.43  |

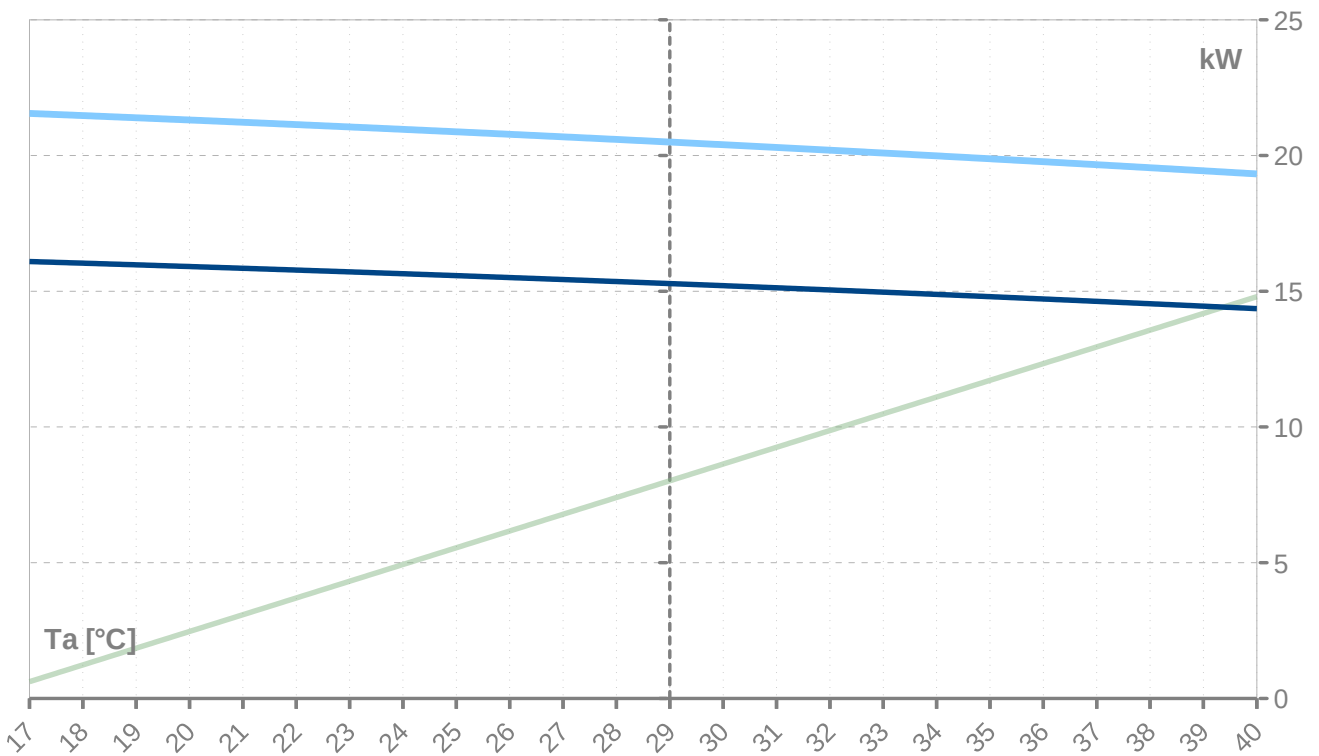
Výkonové kryvky - vykurovanie

- Qh-nom-35    — Qh-min-35    - - - Qh-max-65    — Qh-nom-45    — Qh-nom-55
- Qh-nom-65    — Pratedh-35    — Pratedh-55



Výkonové kryvky - chladenie

- Pratedc    — Qc-12/7    — Qc-23/18



| Th [°C] |             | 35 °C       |             |              |              |              |             |           |           |           |
|---------|-------------|-------------|-------------|--------------|--------------|--------------|-------------|-----------|-----------|-----------|
| Ta [°C] | Qh nom [kW] | Qh min [kW] | Qh max [kW] | Pin nom [kW] | Pin-min [kW] | Pin-max [kW] | COP kW / kW | I nom [A] | I min [A] | I max [A] |
| 25      | <b>27.1</b> | 27.1        |             | <b>4.5</b>   | 4.5          |              | <b>6.04</b> | 9.3       | 9.3       |           |
| 24      | <b>27.1</b> | 27.1        |             | <b>4.5</b>   | 4.5          |              | <b>6.04</b> | 9.3       | 9.3       |           |
| 23      | <b>27.1</b> | 27.1        |             | <b>4.5</b>   | 4.5          |              | <b>6.04</b> | 9.3       | 9.3       |           |
| 22      | <b>27.1</b> | 27.1        |             | <b>4.5</b>   | 4.5          |              | <b>6.04</b> | 9.3       | 9.3       |           |
| 21      | <b>27.1</b> | 27.1        |             | <b>4.5</b>   | 4.5          |              | <b>6.04</b> | 9.3       | 9.3       |           |
| 20      | <b>27.1</b> | 27.1        |             | <b>4.5</b>   | 4.5          |              | <b>6.04</b> | 9.3       | 9.3       |           |
| 19      | <b>27.1</b> | 27.1        |             | <b>4.5</b>   | 4.5          |              | <b>6.04</b> | 9.3       | 9.3       |           |
| 18      | <b>27.1</b> | 27.1        |             | <b>4.5</b>   | 4.5          |              | <b>6.04</b> | 9.3       | 9.3       |           |
| 17      | <b>27.1</b> | 27.1        |             | <b>4.5</b>   | 4.5          |              | <b>6.04</b> | 9.3       | 9.3       |           |
| 16      | <b>26.5</b> | 26.5        | 26.5        | <b>4.5</b>   | 4.5          | 4.5          | <b>5.90</b> | 9.3       | 9.3       | 9.3       |
| 15      | <b>25.9</b> | 25.9        | 25.9        | <b>4.5</b>   | 4.5          | 4.5          | <b>5.77</b> | 9.3       | 9.3       | 9.3       |
| 14      | <b>25.4</b> | 25.4        | 25.4        | <b>4.5</b>   | 4.5          | 4.5          | <b>5.64</b> | 9.3       | 9.3       | 9.3       |
| 13      | <b>24.8</b> | 24.8        | 24.8        | <b>4.5</b>   | 4.5          | 4.5          | <b>5.52</b> | 9.4       | 9.4       | 9.4       |
| 12      | <b>24.3</b> | 24.3        | 24.3        | <b>4.5</b>   | 4.5          | 4.5          | <b>5.39</b> | 9.4       | 9.4       | 9.4       |
| 11      | <b>23.8</b> | 23.8        | 23.8        | <b>4.5</b>   | 4.5          | 4.5          | <b>5.27</b> | 9.4       | 9.4       | 9.4       |
| 10      | <b>23.2</b> | 23.2        | 23.2        | <b>4.5</b>   | 4.5          | 4.5          | <b>5.15</b> | 9.4       | 9.4       | 9.4       |
| 9       | <b>22.3</b> | 22.3        | 22.3        | <b>4.5</b>   | 4.5          | 4.5          | <b>4.94</b> | 9.4       | 9.4       | 9.4       |
| 8       | <b>21.5</b> | 21.5        | 21.5        | <b>4.5</b>   | 4.5          | 4.5          | <b>4.75</b> | 9.4       | 9.4       | 9.4       |
| 7       | <b>20.7</b> | 20.7        | 20.7        | <b>4.5</b>   | 4.5          | 4.5          | <b>4.57</b> | 9.4       | 9.4       | 9.4       |
| 6       | <b>20.0</b> | 20.0        | 20.0        | <b>4.5</b>   | 4.5          | 4.5          | <b>4.40</b> | 9.4       | 9.4       | 9.4       |
| 5       | <b>19.3</b> | 19.3        | 19.3        | <b>4.5</b>   | 4.5          | 4.5          | <b>4.25</b> | 9.4       | 9.4       | 9.4       |
| 4       | <b>18.7</b> | 18.7        | 18.7        | <b>4.5</b>   | 4.5          | 4.5          | <b>4.11</b> | 9.4       | 9.4       | 9.4       |
| 3       | <b>18.1</b> | 18.1        | 18.1        | <b>4.5</b>   | 4.5          | 4.5          | <b>3.99</b> | 9.4       | 9.4       | 9.4       |
| 2       | <b>17.6</b> | 17.6        | 17.6        | <b>4.6</b>   | 4.6          | 4.6          | <b>3.87</b> | 9.4       | 9.4       | 9.4       |
| 1       | <b>17.1</b> | 17.1        | 17.1        | <b>4.6</b>   | 4.6          | 4.6          | <b>3.77</b> | 9.4       | 9.4       | 9.4       |
| 0       | <b>16.7</b> | 16.7        | 16.7        | <b>4.6</b>   | 4.6          | 4.6          | <b>3.67</b> | 9.4       | 9.4       | 9.4       |
| -1      | <b>16.3</b> | 16.3        | 16.3        | <b>4.6</b>   | 4.6          | 4.6          | <b>3.59</b> | 9.4       | 9.4       | 9.4       |
| -2      | <b>16.0</b> | 16.0        | 16.0        | <b>4.6</b>   | 4.6          | 4.6          | <b>3.51</b> | 9.4       | 9.4       | 9.4       |
| -3      | <b>15.7</b> | 15.7        | 15.7        | <b>4.6</b>   | 4.6          | 4.6          | <b>3.44</b> | 9.4       | 9.4       | 9.4       |
| -4      | <b>15.4</b> | 15.4        | 15.4        | <b>4.6</b>   | 4.6          | 4.6          | <b>3.38</b> | 9.4       | 9.4       | 9.4       |
| -5      | <b>15.2</b> | 15.2        | 15.2        | <b>4.6</b>   | 4.6          | 4.6          | <b>3.33</b> | 9.4       | 9.4       | 9.4       |
| -6      | <b>15.0</b> | 15.0        | 15.0        | <b>4.5</b>   | 4.5          | 4.5          | <b>3.29</b> | 9.4       | 9.4       | 9.4       |
| -7      | <b>14.8</b> | 14.8        | 14.8        | <b>4.5</b>   | 4.5          | 4.5          | <b>3.25</b> | 9.4       | 9.4       | 9.4       |
| -8      | <b>14.7</b> | 14.7        | 14.7        | <b>4.5</b>   | 4.5          | 4.5          | <b>3.22</b> | 9.4       | 9.4       | 9.4       |
| -9      | <b>14.5</b> | 14.5        | 14.5        | <b>4.5</b>   | 4.5          | 4.5          | <b>3.20</b> | 9.4       | 9.4       | 9.4       |
| -10     | <b>14.5</b> | 14.5        | 14.5        | <b>4.5</b>   | 4.5          | 4.5          | <b>3.18</b> | 9.4       | 9.4       | 9.4       |
| -11     | <b>14.1</b> | 14.1        | 14.1        | <b>4.5</b>   | 4.5          | 4.5          | <b>3.11</b> | 9.4       | 9.4       | 9.4       |
| -12     | <b>13.8</b> | 13.8        | 13.8        | <b>4.5</b>   | 4.5          | 4.5          | <b>3.03</b> | 9.4       | 9.4       | 9.4       |
| -13     | <b>13.4</b> | 13.4        | 13.4        | <b>4.5</b>   | 4.5          | 4.5          | <b>2.96</b> | 9.4       | 9.4       | 9.4       |
| -14     | <b>13.1</b> | 13.1        | 13.1        | <b>4.5</b>   | 4.5          | 4.5          | <b>2.89</b> | 9.4       | 9.4       | 9.4       |
| -15     | <b>12.7</b> | 12.7        | 12.7        | <b>4.5</b>   | 4.5          | 4.5          | <b>2.82</b> | 9.4       | 9.4       | 9.4       |
| -16     | <b>12.4</b> | 12.4        | 12.4        | <b>4.5</b>   | 4.5          | 4.5          | <b>2.75</b> | 9.4       | 9.4       | 9.4       |
| -17     | <b>12.1</b> | 12.1        | 12.1        | <b>4.5</b>   | 4.5          | 4.5          | <b>2.69</b> | 9.4       | 9.4       | 9.4       |
| -18     | <b>11.8</b> | 11.8        | 11.8        | <b>4.5</b>   | 4.5          | 4.5          | <b>2.62</b> | 9.4       | 9.4       | 9.4       |
| -19     | <b>11.5</b> | 11.5        | 11.5        | <b>4.5</b>   | 4.5          | 4.5          | <b>2.56</b> | 9.4       | 9.4       | 9.4       |
| -20     | <b>11.2</b> | 11.2        | 11.2        | <b>4.5</b>   | 4.5          | 4.5          | <b>2.50</b> | 9.3       | 9.3       | 9.3       |
| -21     | <b>10.9</b> | 10.9        | 10.9        | <b>4.4</b>   | 4.4          | 4.4          | <b>2.44</b> | 9.3       | 9.3       | 9.3       |
| -22     | <b>10.6</b> | 10.6        | 10.6        | <b>4.4</b>   | 4.4          | 4.4          | <b>2.38</b> | 9.3       | 9.3       | 9.3       |
| -23     | <b>10.3</b> | 10.3        | 10.3        | <b>4.4</b>   | 4.4          | 4.4          | <b>2.33</b> | 9.3       | 9.3       | 9.3       |
| -24     | <b>10.0</b> | 10.0        | 10.0        | <b>4.4</b>   | 4.4          | 4.4          | <b>2.27</b> | 9.3       | 9.3       | 9.3       |
| -25     | <b>9.7</b>  | 9.7         | 9.7         | <b>4.4</b>   | 4.4          | 4.4          | <b>2.22</b> | 9.3       | 9.3       | 9.3       |

\* pozor: pracovný rozsah nie je zohľadnený v tabuľke

ZHI18K1P-TFM\_R410A\_1\_AW



| Th [°C] |             | 45 °C       |             |              |              |              |             |           |           |           |
|---------|-------------|-------------|-------------|--------------|--------------|--------------|-------------|-----------|-----------|-----------|
| Ta [°C] | Qh nom [kW] | Qh min [kW] | Qh max [kW] | Pin nom [kW] | Pin-min [kW] | Pin-max [kW] | COP kW / kW | I nom [A] | I min [A] | I max [A] |
| 25      | <b>31.8</b> | 31.8        | 31.8        | <b>5.7</b>   | 5.7          | 5.7          | <b>5.60</b> | 10.5      | 10.5      | 10.5      |
| 24      | <b>31.1</b> | 31.1        | 31.1        | <b>5.7</b>   | 5.7          | 5.7          | <b>5.48</b> | 10.5      | 10.5      | 10.5      |
| 23      | <b>30.5</b> | 30.5        | 30.5        | <b>5.7</b>   | 5.7          | 5.7          | <b>5.37</b> | 10.5      | 10.5      | 10.5      |
| 22      | <b>29.9</b> | 29.9        | 29.9        | <b>5.7</b>   | 5.7          | 5.7          | <b>5.26</b> | 10.5      | 10.5      | 10.5      |
| 21      | <b>29.3</b> | 29.3        | 29.3        | <b>5.7</b>   | 5.7          | 5.7          | <b>5.15</b> | 10.5      | 10.5      | 10.5      |
| 20      | <b>28.7</b> | 28.7        | 28.7        | <b>5.7</b>   | 5.7          | 5.7          | <b>5.04</b> | 10.5      | 10.5      | 10.5      |
| 19      | <b>28.2</b> | 28.2        | 28.2        | <b>5.7</b>   | 5.7          | 5.7          | <b>4.93</b> | 10.5      | 10.5      | 10.5      |
| 18      | <b>27.6</b> | 27.6        | 27.6        | <b>5.7</b>   | 5.7          | 5.7          | <b>4.82</b> | 10.5      | 10.5      | 10.5      |
| 17      | <b>27.0</b> | 27.0        | 27.0        | <b>5.7</b>   | 5.7          | 5.7          | <b>4.72</b> | 10.5      | 10.5      | 10.5      |
| 16      | <b>26.5</b> | 26.5        | 26.5        | <b>5.7</b>   | 5.7          | 5.7          | <b>4.62</b> | 10.5      | 10.5      | 10.5      |
| 15      | <b>26.0</b> | 26.0        | 26.0        | <b>5.7</b>   | 5.7          | 5.7          | <b>4.52</b> | 10.5      | 10.5      | 10.5      |
| 14      | <b>25.4</b> | 25.4        | 25.4        | <b>5.7</b>   | 5.7          | 5.7          | <b>4.42</b> | 10.6      | 10.6      | 10.6      |
| 13      | <b>24.9</b> | 24.9        | 24.9        | <b>5.8</b>   | 5.8          | 5.8          | <b>4.33</b> | 10.6      | 10.6      | 10.6      |
| 12      | <b>24.4</b> | 24.4        | 24.4        | <b>5.8</b>   | 5.8          | 5.8          | <b>4.24</b> | 10.6      | 10.6      | 10.6      |
| 11      | <b>23.9</b> | 23.9        | 23.9        | <b>5.8</b>   | 5.8          | 5.8          | <b>4.15</b> | 10.6      | 10.6      | 10.6      |
| 10      | <b>23.4</b> | 23.4        | 23.4        | <b>5.8</b>   | 5.8          | 5.8          | <b>4.06</b> | 10.6      | 10.6      | 10.6      |
| 9       | <b>22.5</b> | 22.5        | 22.5        | <b>5.8</b>   | 5.8          | 5.8          | <b>3.90</b> | 10.6      | 10.6      | 10.6      |
| 8       | <b>21.7</b> | 21.7        | 21.7        | <b>5.8</b>   | 5.8          | 5.8          | <b>3.76</b> | 10.6      | 10.6      | 10.6      |
| 7       | <b>21.0</b> | 21.0        | 21.0        | <b>5.8</b>   | 5.8          | 5.8          | <b>3.63</b> | 10.6      | 10.6      | 10.6      |
| 6       | <b>20.3</b> | 20.3        | 20.3        | <b>5.8</b>   | 5.8          | 5.8          | <b>3.50</b> | 10.6      | 10.6      | 10.6      |
| 5       | <b>19.6</b> | 19.6        | 19.6        | <b>5.8</b>   | 5.8          | 5.8          | <b>3.39</b> | 10.6      | 10.6      | 10.6      |
| 4       | <b>19.0</b> | 19.0        | 19.0        | <b>5.8</b>   | 5.8          | 5.8          | <b>3.29</b> | 10.6      | 10.6      | 10.6      |
| 3       | <b>18.5</b> | 18.5        | 18.5        | <b>5.8</b>   | 5.8          | 5.8          | <b>3.20</b> | 10.6      | 10.6      | 10.6      |
| 2       | <b>18.0</b> | 18.0        | 18.0        | <b>5.8</b>   | 5.8          | 5.8          | <b>3.11</b> | 10.6      | 10.6      | 10.6      |
| 1       | <b>17.5</b> | 17.5        | 17.5        | <b>5.8</b>   | 5.8          | 5.8          | <b>3.04</b> | 10.6      | 10.6      | 10.6      |
| 0       | <b>17.1</b> | 17.1        | 17.1        | <b>5.8</b>   | 5.8          | 5.8          | <b>2.97</b> | 10.6      | 10.6      | 10.6      |
| -1      | <b>16.7</b> | 16.7        | 16.7        | <b>5.8</b>   | 5.8          | 5.8          | <b>2.90</b> | 10.6      | 10.6      | 10.6      |
| -2      | <b>16.4</b> | 16.4        | 16.4        | <b>5.7</b>   | 5.7          | 5.7          | <b>2.85</b> | 10.6      | 10.6      | 10.6      |
| -3      | <b>16.1</b> | 16.1        | 16.1        | <b>5.7</b>   | 5.7          | 5.7          | <b>2.80</b> | 10.6      | 10.6      | 10.6      |
| -4      | <b>15.8</b> | 15.8        | 15.8        | <b>5.7</b>   | 5.7          | 5.7          | <b>2.76</b> | 10.5      | 10.5      | 10.5      |
| -5      | <b>15.6</b> | 15.6        | 15.6        | <b>5.7</b>   | 5.7          | 5.7          | <b>2.72</b> | 10.5      | 10.5      | 10.5      |
| -6      | <b>15.4</b> | 15.4        | 15.4        | <b>5.7</b>   | 5.7          | 5.7          | <b>2.68</b> | 10.5      | 10.5      | 10.5      |
| -7      | <b>15.2</b> | 15.2        | 15.2        | <b>5.7</b>   | 5.7          | 5.7          | <b>2.66</b> | 10.5      | 10.5      | 10.5      |
| -8      | <b>15.0</b> | 15.0        | 15.0        | <b>5.7</b>   | 5.7          | 5.7          | <b>2.64</b> | 10.5      | 10.5      | 10.5      |
| -9      | <b>14.9</b> | 14.9        | 14.9        | <b>5.7</b>   | 5.7          | 5.7          | <b>2.62</b> | 10.5      | 10.5      | 10.5      |
| -10     | <b>14.9</b> | 14.9        | 14.9        | <b>5.7</b>   | 5.7          | 5.7          | <b>2.61</b> | 10.5      | 10.5      | 10.5      |
| -11     | <b>14.5</b> | 14.5        | 14.5        | <b>5.7</b>   | 5.7          | 5.7          | <b>2.55</b> | 10.5      | 10.5      | 10.5      |
| -12     | <b>14.1</b> | 14.1        | 14.1        | <b>5.7</b>   | 5.7          | 5.7          | <b>2.49</b> | 10.5      | 10.5      | 10.5      |
| -13     | <b>13.8</b> | 13.8        | 13.8        | <b>5.7</b>   | 5.7          | 5.7          | <b>2.44</b> | 10.5      | 10.5      | 10.5      |
| -14     | <b>13.4</b> | 13.4        | 13.4        | <b>5.6</b>   | 5.6          | 5.6          | <b>2.39</b> | 10.4      | 10.4      | 10.4      |
| -15     | <b>13.1</b> | 13.1        | 13.1        | <b>5.6</b>   | 5.6          | 5.6          | <b>2.34</b> | 10.4      | 10.4      | 10.4      |
| -16     | <b>12.8</b> | 12.8        | 12.8        | <b>5.6</b>   | 5.6          | 5.6          | <b>2.29</b> | 10.4      | 10.4      | 10.4      |
| -17     | <b>12.4</b> | 12.4        | 12.4        | <b>5.6</b>   | 5.6          | 5.6          | <b>2.24</b> | 10.4      | 10.4      | 10.4      |
| -18     | <b>12.1</b> | 12.1        | 12.1        | <b>5.5</b>   | 5.5          | 5.5          | <b>2.19</b> | 10.4      | 10.4      | 10.4      |
| -19     | <b>11.8</b> | 11.8        | 11.8        | <b>5.5</b>   | 5.5          | 5.5          | <b>2.14</b> | 10.3      | 10.3      | 10.3      |
| -20     | <b>11.5</b> | 11.5        | 11.5        | <b>5.5</b>   | 5.5          | 5.5          | <b>2.09</b> | 10.3      | 10.3      | 10.3      |
| -21     | <b>11.2</b> | 11.2        | 11.2        | <b>5.5</b>   | 5.5          | 5.5          | <b>2.05</b> | 10.3      | 10.3      | 10.3      |
| -22     | <b>10.9</b> | 10.9        | 10.9        | <b>5.4</b>   | 5.4          | 5.4          | <b>2.00</b> | 10.2      | 10.2      | 10.2      |
| -23     | <b>10.6</b> | 10.6        | 10.6        | <b>5.4</b>   | 5.4          | 5.4          | <b>1.96</b> | 10.2      | 10.2      | 10.2      |
| -24     | <b>10.3</b> | 10.3        | 10.3        | <b>5.3</b>   | 5.3          | 5.3          | <b>1.92</b> | 10.2      | 10.2      | 10.2      |
| -25     | <b>10.0</b> | 10.0        | 10.0        | <b>5.3</b>   | 5.3          | 5.3          | <b>1.87</b> | 10.1      | 10.1      | 10.1      |

\* pozor: pracovný rozsah nie je zohľadnený v tabuľke

| Th [°C] |                | 55 °C          |                |                 |                 |                 |                |              |              |              |
|---------|----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|--------------|--------------|--------------|
| Ta [°C] | Qh nom<br>[kW] | Qh min<br>[kW] | Qh max<br>[kW] | Pin nom<br>[kW] | Pin-min<br>[kW] | Pin-max<br>[kW] | COP<br>kW / kW | I nom<br>[A] | I min<br>[A] | I max<br>[A] |
| 25      | 31.7           | 31.7           | 31.7           | 7.4             | 7.4             | 7.4             | 4.29           | 12.3         | 12.3         | 12.3         |
| 24      | 31.1           | 31.1           | 31.1           | 7.4             | 7.4             | 7.4             | 4.21           | 12.3         | 12.3         | 12.3         |
| 23      | 30.6           | 30.6           | 30.6           | 7.4             | 7.4             | 7.4             | 4.13           | 12.3         | 12.3         | 12.3         |
| 22      | 30.0           | 30.0           | 30.0           | 7.4             | 7.4             | 7.4             | 4.04           | 12.4         | 12.4         | 12.4         |
| 21      | 29.4           | 29.4           | 29.4           | 7.4             | 7.4             | 7.4             | 3.96           | 12.4         | 12.4         | 12.4         |
| 20      | 28.9           | 28.9           | 28.9           | 7.4             | 7.4             | 7.4             | 3.89           | 12.4         | 12.4         | 12.4         |
| 19      | 28.3           | 28.3           | 28.3           | 7.4             | 7.4             | 7.4             | 3.81           | 12.4         | 12.4         | 12.4         |
| 18      | 27.8           | 27.8           | 27.8           | 7.4             | 7.4             | 7.4             | 3.73           | 12.4         | 12.4         | 12.4         |
| 17      | 27.3           | 27.3           | 27.3           | 7.5             | 7.5             | 7.5             | 3.66           | 12.4         | 12.4         | 12.4         |
| 16      | 26.7           | 26.7           | 26.7           | 7.5             | 7.5             | 7.5             | 3.59           | 12.4         | 12.4         | 12.4         |
| 15      | 26.2           | 26.2           | 26.2           | 7.5             | 7.5             | 7.5             | 3.52           | 12.4         | 12.4         | 12.4         |
| 14      | 25.7           | 25.7           | 25.7           | 7.5             | 7.5             | 7.5             | 3.45           | 12.4         | 12.4         | 12.4         |
| 13      | 25.2           | 25.2           | 25.2           | 7.5             | 7.5             | 7.5             | 3.38           | 12.4         | 12.4         | 12.4         |
| 12      | 24.7           | 24.7           | 24.7           | 7.5             | 7.5             | 7.5             | 3.31           | 12.4         | 12.4         | 12.4         |
| 11      | 24.3           | 24.3           | 24.3           | 7.5             | 7.5             | 7.5             | 3.25           | 12.4         | 12.4         | 12.4         |
| 10      | 23.8           | 23.8           | 23.8           | 7.5             | 7.5             | 7.5             | 3.19           | 12.4         | 12.4         | 12.4         |
| 9       | 23.0           | 23.0           | 23.0           | 7.5             | 7.5             | 7.5             | 3.07           | 12.4         | 12.4         | 12.4         |
| 8       | 22.2           | 22.2           | 22.2           | 7.5             | 7.5             | 7.5             | 2.97           | 12.4         | 12.4         | 12.4         |
| 7       | 21.5           | 21.5           | 21.5           | 7.5             | 7.5             | 7.5             | 2.88           | 12.4         | 12.4         | 12.4         |
| 6       | 20.8           | 20.8           | 20.8           | 7.4             | 7.4             | 7.4             | 2.79           | 12.4         | 12.4         | 12.4         |
| 5       | 20.1           | 20.1           | 20.1           | 7.4             | 7.4             | 7.4             | 2.71           | 12.4         | 12.4         | 12.4         |
| 4       | 19.6           | 19.6           | 19.6           | 7.4             | 7.4             | 7.4             | 2.64           | 12.4         | 12.4         | 12.4         |
| 3       | 19.0           | 19.0           | 19.0           | 7.4             | 7.4             | 7.4             | 2.57           | 12.3         | 12.3         | 12.3         |
| 2       | 18.5           | 18.5           | 18.5           | 7.4             | 7.4             | 7.4             | 2.51           | 12.3         | 12.3         | 12.3         |
| 1       | 18.1           | 18.1           | 18.1           | 7.4             | 7.4             | 7.4             | 2.46           | 12.3         | 12.3         | 12.3         |
| 0       | 17.7           | 17.7           | 17.7           | 7.3             | 7.3             | 7.3             | 2.41           | 12.3         | 12.3         | 12.3         |
| -1      | 17.3           | 17.3           | 17.3           | 7.3             | 7.3             | 7.3             | 2.36           | 12.3         | 12.3         | 12.3         |
| -2      | 16.9           | 16.9           | 16.9           | 7.3             | 7.3             | 7.3             | 2.32           | 12.2         | 12.2         | 12.2         |
| -3      | 16.6           | 16.6           | 16.6           | 7.3             | 7.3             | 7.3             | 2.29           | 12.2         | 12.2         | 12.2         |
| -4      | 16.4           | 16.4           | 16.4           | 7.3             | 7.3             | 7.3             | 2.25           | 12.2         | 12.2         | 12.2         |
| -5      | 16.1           | 16.1           | 16.1           | 7.2             | 7.2             | 7.2             | 2.23           | 12.2         | 12.2         | 12.2         |
| -6      | 15.9           | 15.9           | 15.9           | 7.2             | 7.2             | 7.2             | 2.20           | 12.2         | 12.2         | 12.2         |
| -7      | 15.8           | 15.8           | 15.8           | 7.2             | 7.2             | 7.2             | 2.18           | 12.1         | 12.1         | 12.1         |
| -8      | 15.6           | 15.6           | 15.6           | 7.2             | 7.2             | 7.2             | 2.17           | 12.1         | 12.1         | 12.1         |
| -9      | 15.5           | 15.5           | 15.5           | 7.2             | 7.2             | 7.2             | 2.15           | 12.1         | 12.1         | 12.1         |
| -10     | 15.4           | 15.4           | 15.4           | 7.2             | 7.2             | 7.2             | 2.14           | 12.1         | 12.1         | 12.1         |
| -11     | 15.1           | 15.1           | 15.1           | 7.2             | 7.2             | 7.2             | 2.10           | 12.1         | 12.1         | 12.1         |
| -12     | 14.7           | 14.7           | 14.7           | 7.1             | 7.1             | 7.1             | 2.06           | 12.1         | 12.1         | 12.1         |
| -13     | 14.4           | 14.4           | 14.4           | 7.1             | 7.1             | 7.1             | 2.02           | 12.0         | 12.0         | 12.0         |
| -14     | 14.0           | 14.0           | 14.0           | 7.1             | 7.1             | 7.1             | 1.98           | 12.0         | 12.0         | 12.0         |
| -15     | 13.7           | 13.7           | 13.7           | 7.0             | 7.0             | 7.0             | 1.95           | 11.9         | 11.9         | 11.9         |
| -16     | 13.3           | 13.3           | 13.3           | 7.0             | 7.0             | 7.0             | 1.91           | 11.9         | 11.9         | 11.9         |
| -17     | 13.0           | 13.0           | 13.0           | 6.9             | 6.9             | 6.9             | 1.87           | 11.8         | 11.8         | 11.8         |
| -18     | 12.6           | 12.6           | 12.6           | 6.9             | 6.9             | 6.9             | 1.83           | 11.8         | 11.8         | 11.8         |
| -19     | 12.3           | 12.3           | 12.3           | 6.8             | 6.8             | 6.8             | 1.80           | 11.7         | 11.7         | 11.7         |
| -20     | 12.0           | 12.0           | 12.0           | 6.8             | 6.8             | 6.8             | 1.76           | 11.7         | 11.7         | 11.7         |
| -21     | 11.6           | 11.6           | 11.6           | 6.7             | 6.7             | 6.7             | 1.73           | 11.6         | 11.6         | 11.6         |
| -22     | 11.3           | 11.3           | 11.3           | 6.7             | 6.7             | 6.7             | 1.69           | 11.6         | 11.6         | 11.6         |
| -23     | 11.0           | 11.0           | 11.0           | 6.6             | 6.6             | 6.6             | 1.66           | 11.5         | 11.5         | 11.5         |
| -24     | 10.7           | 10.7           | 10.7           | 6.6             | 6.6             | 6.6             | 1.62           | 11.5         | 11.5         | 11.5         |
| -25     | 10.3           | 10.3           | 10.3           | 6.5             | 6.5             | 6.5             | 1.59           | 11.4         | 11.4         | 11.4         |

\* pozor: pracovný rozsah nie je zohľadnený v tabuľke

| Th [°C] |                | T-Max @ 65 °C  |                |                 |                 |                 |                |              |              |              |
|---------|----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|--------------|--------------|--------------|
| Ta [°C] | Qh nom<br>[kW] | Qh min<br>[kW] | Qh max<br>[kW] | Pin nom<br>[kW] | Pin-min<br>[kW] | Pin-max<br>[kW] | COP<br>kW / kW | I nom<br>[A] | I min<br>[A] | I max<br>[A] |
| 25      | <b>32.0</b>    | 32.0           | 32.0           | <b>9.7</b>      | 9.7             | 9.7             | <b>3.30</b>    | 15.1         | 15.1         | 15.1         |
| 24      | <b>31.5</b>    | 31.5           | 31.5           | <b>9.7</b>      | 9.7             | 9.7             | <b>3.24</b>    | 15.1         | 15.1         | 15.1         |
| 23      | <b>30.9</b>    | 30.9           | 30.9           | <b>9.7</b>      | 9.7             | 9.7             | <b>3.18</b>    | 15.1         | 15.1         | 15.1         |
| 22      | <b>30.4</b>    | 30.4           | 30.4           | <b>9.7</b>      | 9.7             | 9.7             | <b>3.13</b>    | 15.1         | 15.1         | 15.1         |
| 21      | <b>29.8</b>    | 29.8           | 29.8           | <b>9.7</b>      | 9.7             | 9.7             | <b>3.07</b>    | 15.1         | 15.1         | 15.1         |
| 20      | <b>29.3</b>    | 29.3           | 29.3           | <b>9.7</b>      | 9.7             | 9.7             | <b>3.02</b>    | 15.1         | 15.1         | 15.1         |
| 19      | <b>28.8</b>    | 28.8           | 28.8           | <b>9.7</b>      | 9.7             | 9.7             | <b>2.96</b>    | 15.1         | 15.1         | 15.1         |
| 18      | <b>28.3</b>    | 28.3           | 28.3           | <b>9.7</b>      | 9.7             | 9.7             | <b>2.91</b>    | 15.1         | 15.1         | 15.1         |
| 17      | <b>27.8</b>    | 27.8           | 27.8           | <b>9.7</b>      | 9.7             | 9.7             | <b>2.86</b>    | 15.1         | 15.1         | 15.1         |
| 16      | <b>27.3</b>    | 27.3           | 27.3           | <b>9.7</b>      | 9.7             | 9.7             | <b>2.81</b>    | 15.1         | 15.1         | 15.1         |
| 15      | <b>26.8</b>    | 26.8           | 26.8           | <b>9.7</b>      | 9.7             | 9.7             | <b>2.76</b>    | 15.1         | 15.1         | 15.1         |
| 14      | <b>26.3</b>    | 26.3           | 26.3           | <b>9.7</b>      | 9.7             | 9.7             | <b>2.71</b>    | 15.1         | 15.1         | 15.1         |
| 13      | <b>25.9</b>    | 25.9           | 25.9           | <b>9.7</b>      | 9.7             | 9.7             | <b>2.66</b>    | 15.1         | 15.1         | 15.1         |
| 12      | <b>25.4</b>    | 25.4           | 25.4           | <b>9.7</b>      | 9.7             | 9.7             | <b>2.62</b>    | 15.1         | 15.1         | 15.1         |
| 11      | <b>24.9</b>    | 24.9           | 24.9           | <b>9.7</b>      | 9.7             | 9.7             | <b>2.57</b>    | 15.1         | 15.1         | 15.1         |
| 10      | <b>24.5</b>    | 24.5           | 24.5           | <b>9.7</b>      | 9.7             | 9.7             | <b>2.53</b>    | 15.1         | 15.1         | 15.1         |
| 9       | <b>23.7</b>    | 23.7           | 23.7           | <b>9.7</b>      | 9.7             | 9.7             | <b>2.45</b>    | 15.0         | 15.0         | 15.0         |
| 8       | <b>22.9</b>    | 22.9           | 22.9           | <b>9.6</b>      | 9.6             | 9.6             | <b>2.38</b>    | 15.0         | 15.0         | 15.0         |
| 7       | <b>22.2</b>    | 22.2           | 22.2           | <b>9.6</b>      | 9.6             | 9.6             | <b>2.31</b>    | 15.0         | 15.0         | 15.0         |
| 6       | <b>21.6</b>    | 21.6           | 21.6           | <b>9.6</b>      | 9.6             | 9.6             | <b>2.25</b>    | 14.9         | 14.9         | 14.9         |
| 5       | <b>20.9</b>    | 20.9           | 20.9           | <b>9.5</b>      | 9.5             | 9.5             | <b>2.19</b>    | 14.9         | 14.9         | 14.9         |
| 4       | <b>20.4</b>    | 20.4           | 20.4           | <b>9.5</b>      | 9.5             | 9.5             | <b>2.14</b>    | 14.9         | 14.9         | 14.9         |
| 3       | <b>19.8</b>    | 19.8           | 19.8           | <b>9.5</b>      | 9.5             | 9.5             | <b>2.10</b>    | 14.8         | 14.8         | 14.8         |
| 2       | <b>19.3</b>    | 19.3           | 19.3           | <b>9.4</b>      | 9.4             | 9.4             | <b>2.05</b>    | 14.8         | 14.8         | 14.8         |
| 1       | <b>18.9</b>    | 18.9           | 18.9           | <b>9.4</b>      | 9.4             | 9.4             | <b>2.01</b>    | 14.7         | 14.7         | 14.7         |
| 0       | <b>18.5</b>    | 18.5           | 18.5           | <b>9.4</b>      | 9.4             | 9.4             | <b>1.98</b>    | 14.7         | 14.7         | 14.7         |
| -1      | <b>18.1</b>    | 18.1           | 18.1           | <b>9.3</b>      | 9.3             | 9.3             | <b>1.94</b>    | 14.7         | 14.7         | 14.7         |
| -2      | <b>17.8</b>    | 17.8           | 17.8           | <b>9.3</b>      | 9.3             | 9.3             | <b>1.92</b>    | 14.6         | 14.6         | 14.6         |
| -3      | <b>17.5</b>    | 17.5           | 17.5           | <b>9.2</b>      | 9.2             | 9.2             | <b>1.89</b>    | 14.6         | 14.6         | 14.6         |
| -4      | <b>17.2</b>    | 17.2           | 17.2           | <b>9.2</b>      | 9.2             | 9.2             | <b>1.87</b>    | 14.5         | 14.5         | 14.5         |
| -5      | <b>17.0</b>    | 17.0           | 17.0           | <b>9.2</b>      | 9.2             | 9.2             | <b>1.85</b>    | 14.5         | 14.5         | 14.5         |
| -6      | <b>16.8</b>    | 16.8           | 16.8           | <b>9.2</b>      | 9.2             | 9.2             | <b>1.83</b>    | 14.5         | 14.5         | 14.5         |
| -7      | <b>16.6</b>    | 16.6           | 16.6           | <b>9.1</b>      | 9.1             | 9.1             | <b>1.81</b>    | 14.5         | 14.5         | 14.5         |
| -8      | <b>16.4</b>    | 16.4           | 16.4           | <b>9.1</b>      | 9.1             | 9.1             | <b>1.80</b>    | 14.4         | 14.4         | 14.4         |
| -9      | <b>16.3</b>    | 16.3           | 16.3           | <b>9.1</b>      | 9.1             | 9.1             | <b>1.79</b>    | 14.4         | 14.4         | 14.4         |
| -10     | <b>16.2</b>    | 16.2           | 16.2           | <b>9.1</b>      | 9.1             | 9.1             | <b>1.79</b>    | 14.4         | 14.4         | 14.4         |
| -11     | <b>15.9</b>    | 15.9           | 15.9           | <b>9.0</b>      | 9.0             | 9.0             | <b>1.76</b>    | 14.4         | 14.4         | 14.4         |
| -12     | <b>15.5</b>    | 15.5           | 15.5           | <b>9.0</b>      | 9.0             | 9.0             | <b>1.73</b>    | 14.3         | 14.3         | 14.3         |
| -13     | <b>15.1</b>    | 15.1           | 15.1           | <b>8.9</b>      | 8.9             | 8.9             | <b>1.70</b>    | 14.2         | 14.2         | 14.2         |
| -14     | <b>14.8</b>    | 14.8           | 14.8           | <b>8.9</b>      | 8.9             | 8.9             | <b>1.67</b>    | 14.2         | 14.2         | 14.2         |
| -15     | <b>14.4</b>    | 14.4           | 14.4           | <b>8.8</b>      | 8.8             | 8.8             | <b>1.64</b>    | 14.1         | 14.1         | 14.1         |
| -16     |                |                |                |                 |                 |                 |                |              |              |              |
| -17     |                |                |                |                 |                 |                 |                |              |              |              |
| -18     |                |                |                |                 |                 |                 |                |              |              |              |
| -19     |                |                |                |                 |                 |                 |                |              |              |              |
| -20     |                |                |                |                 |                 |                 |                |              |              |              |
| -21     |                |                |                |                 |                 |                 |                |              |              |              |
| -22     |                |                |                |                 |                 |                 |                |              |              |              |
| -23     |                |                |                |                 |                 |                 |                |              |              |              |
| -24     |                |                |                |                 |                 |                 |                |              |              |              |
| -25     |                |                |                |                 |                 |                 |                |              |              |              |

\* pozor: pracovný rozsah nie je zohľadnený v tabuľke

| Tc [°C] |             | W 12 / 7 °C |             |          |              |              |             |           |           |           |
|---------|-------------|-------------|-------------|----------|--------------|--------------|-------------|-----------|-----------|-----------|
| Ta [°C] | Qc nom [kW] | Qc min [kW] | Qc max [kW] | Pin [kW] | Pin min [kW] | Pin max [kW] | EER kW / kW | I nom [A] | I min [A] | I max [A] |
| 40      | 14.4        | 14.4        | 14.4        | 6.2      | 6.2          | 6.2          | 2.30        | 11.1      | 11.1      | 11.1      |
| 39      | 14.5        | 14.5        | 14.5        | 6.1      | 6.1          | 6.1          | 2.38        | 10.9      | 10.9      | 10.9      |
| 38      | 14.5        | 14.5        | 14.5        | 5.9      | 5.9          | 5.9          | 2.45        | 10.7      | 10.7      | 10.7      |
| 37      | 14.6        | 14.6        | 14.6        | 5.8      | 5.8          | 5.8          | 2.53        | 10.6      | 10.6      | 10.6      |
| 36      | 14.7        | 14.7        | 14.7        | 5.6      | 5.6          | 5.6          | 2.61        | 10.5      | 10.5      | 10.5      |
| 35      | 14.8        | 14.8        | 14.8        | 5.5      | 5.5          | 5.5          | 2.69        | 10.3      | 10.3      | 10.3      |
| 34      | 14.9        | 14.9        | 14.9        | 5.4      | 5.4          | 5.4          | 2.77        | 10.2      | 10.2      | 10.2      |
| 33      | 15.0        | 15.0        | 15.0        | 5.2      | 5.2          | 5.2          | 2.86        | 10.1      | 10.1      | 10.1      |
| 32      | 15.0        | 15.0        | 15.0        | 5.1      | 5.1          | 5.1          | 2.94        | 9.9       | 9.9       | 9.9       |
| 31      | 15.1        | 15.1        | 15.1        | 5.0      | 5.0          | 5.0          | 3.03        | 9.8       | 9.8       | 9.8       |
| 30      | 15.2        | 15.2        | 15.2        | 4.9      | 4.9          | 4.9          | 3.12        | 9.7       | 9.7       | 9.7       |
| 29      | 15.3        | 15.3        | 15.3        | 4.8      | 4.8          | 4.8          | 3.21        | 9.6       | 9.6       | 9.6       |
| 28      | 15.4        | 15.4        | 15.4        | 4.6      | 4.6          | 4.6          | 3.30        | 9.5       | 9.5       | 9.5       |
| 27      | 15.4        | 15.4        | 15.4        | 4.5      | 4.5          | 4.5          | 3.40        | 9.4       | 9.4       | 9.4       |
| 26      | 15.5        | 15.5        | 15.5        | 4.4      | 4.4          | 4.4          | 3.50        | 9.3       | 9.3       | 9.3       |
| 25      | 15.6        | 15.6        | 15.6        | 4.3      | 4.3          | 4.3          | 3.59        | 9.2       | 9.2       | 9.2       |
| 24      | 15.6        | 15.6        | 15.6        | 4.2      | 4.2          | 4.2          | 3.69        | 9.1       | 9.1       | 9.1       |
| 23      | 15.7        | 15.7        | 15.7        | 4.1      | 4.1          | 4.1          | 3.80        | 9.0       | 9.0       | 9.0       |
| 22      | 15.8        | 15.8        | 15.8        | 4.0      | 4.0          | 4.0          | 3.90        | 8.9       | 8.9       | 8.9       |
| 21      | 15.8        | 15.8        | 15.8        | 4.0      | 4.0          | 4.0          | 4.00        | 8.9       | 8.9       | 8.9       |
| 20      | 15.9        | 15.9        | 15.9        | 3.9      | 3.9          | 3.9          | 4.11        | 8.8       | 8.8       | 8.8       |
| 19      | 16.0        | 16.0        | 16.0        | 3.8      | 3.8          | 3.8          | 4.22        | 8.7       | 8.7       | 8.7       |
| 18      | 16.0        | 16.0        | 16.0        | 3.7      | 3.7          | 3.7          | 4.33        | 8.6       | 8.6       | 8.6       |
| 17      | 16.1        | 16.1        | 16.1        | 3.6      | 3.6          | 3.6          | 4.44        | 8.6       | 8.6       | 8.6       |

| Tc [°C] |         | W 23 / 18 °C |             |          |              |              |             |       |           |           |
|---------|---------|--------------|-------------|----------|--------------|--------------|-------------|-------|-----------|-----------|
| Ta [°C] | Qc [kW] | Qh-min [kW]  | Qh-max [kW] | Pin [kW] | Pin-min [kW] | Pin-max [kW] | EER kW / kW | I [A] | I-min [A] | I-max [A] |
| 40      | 19.3    | 19.3         | 19.3        | 6.2      | 6.2          | 6.2          | 3.10        | 11.0  | 11.0      | 11.0      |
| 39      | 19.4    | 19.4         | 19.4        | 6.1      | 6.1          | 6.1          | 3.20        | 10.9  | 10.9      | 10.9      |
| 38      | 19.6    | 19.6         | 19.6        | 5.9      | 5.9          | 5.9          | 3.30        | 10.7  | 10.7      | 10.7      |
| 37      | 19.7    | 19.7         | 19.7        | 5.8      | 5.8          | 5.8          | 3.40        | 10.6  | 10.6      | 10.6      |
| 36      | 19.8    | 19.8         | 19.8        | 5.6      | 5.6          | 5.6          | 3.50        | 10.4  | 10.4      | 10.4      |
| 35      | 19.9    | 19.9         | 19.9        | 5.5      | 5.5          | 5.5          | 3.61        | 10.3  | 10.3      | 10.3      |
| 34      | 20.0    | 20.0         | 20.0        | 5.4      | 5.4          | 5.4          | 3.72        | 10.1  | 10.1      | 10.1      |
| 33      | 20.1    | 20.1         | 20.1        | 5.2      | 5.2          | 5.2          | 3.83        | 10.0  | 10.0      | 10.0      |
| 32      | 20.2    | 20.2         | 20.2        | 5.1      | 5.1          | 5.1          | 3.95        | 9.9   | 9.9       | 9.9       |
| 31      | 20.3    | 20.3         | 20.3        | 5.0      | 5.0          | 5.0          | 4.06        | 9.8   | 9.8       | 9.8       |
| 30      | 20.4    | 20.4         | 20.4        | 4.9      | 4.9          | 4.9          | 4.18        | 9.7   | 9.7       | 9.7       |
| 29      | 20.5    | 20.5         | 20.5        | 4.8      | 4.8          | 4.8          | 4.31        | 9.6   | 9.6       | 9.6       |
| 28      | 20.6    | 20.6         | 20.6        | 4.6      | 4.6          | 4.6          | 4.43        | 9.5   | 9.5       | 9.5       |
| 27      | 20.7    | 20.7         | 20.7        | 4.5      | 4.5          | 4.5          | 4.56        | 9.4   | 9.4       | 9.4       |
| 26      | 20.8    | 20.8         | 20.8        | 4.4      | 4.4          | 4.4          | 4.69        | 9.3   | 9.3       | 9.3       |
| 25      | 20.9    | 20.9         | 20.9        | 4.3      | 4.3          | 4.3          | 4.82        | 9.2   | 9.2       | 9.2       |
| 24      | 21.0    | 21.0         | 21.0        | 4.2      | 4.2          | 4.2          | 4.95        | 9.1   | 9.1       | 9.1       |
| 23      | 21.1    | 21.1         | 21.1        | 4.1      | 4.1          | 4.1          | 5.09        | 9.0   | 9.0       | 9.0       |
| 22      | 21.1    | 21.1         | 21.1        | 4.0      | 4.0          | 4.0          | 5.22        | 8.9   | 8.9       | 8.9       |
| 21      | 21.2    | 21.2         | 21.2        | 4.0      | 4.0          | 4.0          | 5.36        | 8.9   | 8.9       | 8.9       |
| 20      | 21.3    | 21.3         | 21.3        | 3.9      | 3.9          | 3.9          | 5.51        | 8.8   | 8.8       | 8.8       |
| 19      | 21.4    | 21.4         | 21.4        | 3.8      | 3.8          | 3.8          | 5.65        | 8.7   | 8.7       | 8.7       |
| 18      | 21.5    | 21.5         | 21.5        | 3.7      | 3.7          | 3.7          | 5.79        | 8.6   | 8.6       | 8.6       |
| 17      | 21.6    | 21.6         | 21.6        | 3.6      | 3.6          | 3.6          | 5.94        | 8.6   | 8.6       | 8.6       |

\* pozor: pracovný rozsah nie je zohľadnený v tabuľke

LEGENDE:

Tz-VS: Teplota zdroja - vstup [°C]

Tv-VY: Teplota vykurovania - výstup [°C]

Tch-VY: Teplota chladenia - výstup [°C]

Qh nom: Nominálny tepelný výkon

Qh min: Minimálny tepelný výkon

Qh max: Maximálny tepelný výkon

Pin nom: Príkonnosť pri nominálnom tepelnom výkone

Pin min: Príkonnosť pri minimálnom tepelnom výkone

Pin max: Príkonnosť pri maximálnom tepelnom výkone

COP nom: Koeficient účinnosti pri nominálnom tepelnom výkone

Qc nom: Chladiaci výkon / odobrané teplo pri nominálnom tepelnom výkone

Qc min: Chladiaci výkon / odobrané teplo pri minimálnom tepelnom výkone

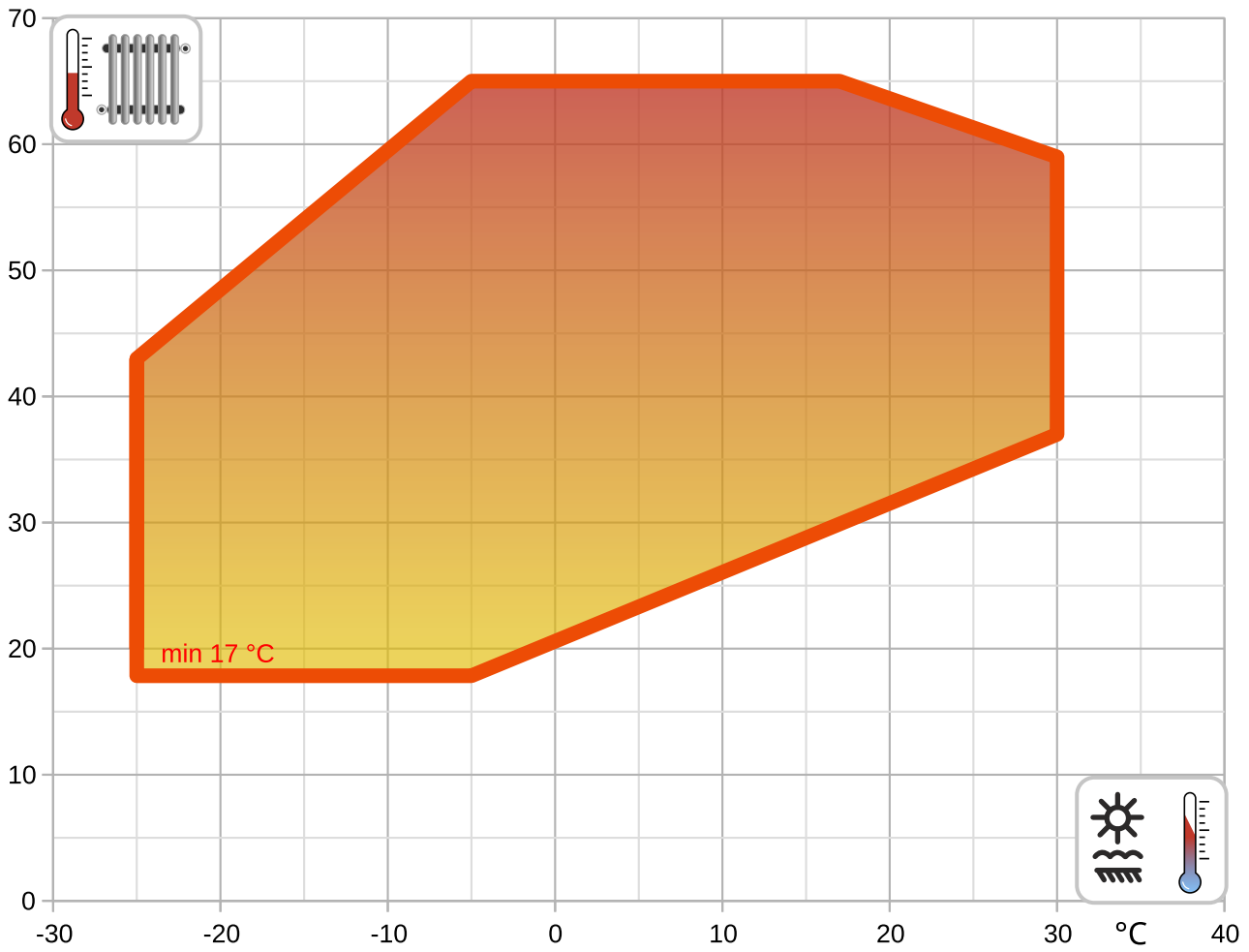
Qc max: Chladiaci výkon / odobrané teplo pri maximálnom tepelnom výkone

I nom: Prúd pri nominálnom tepelnom výkone

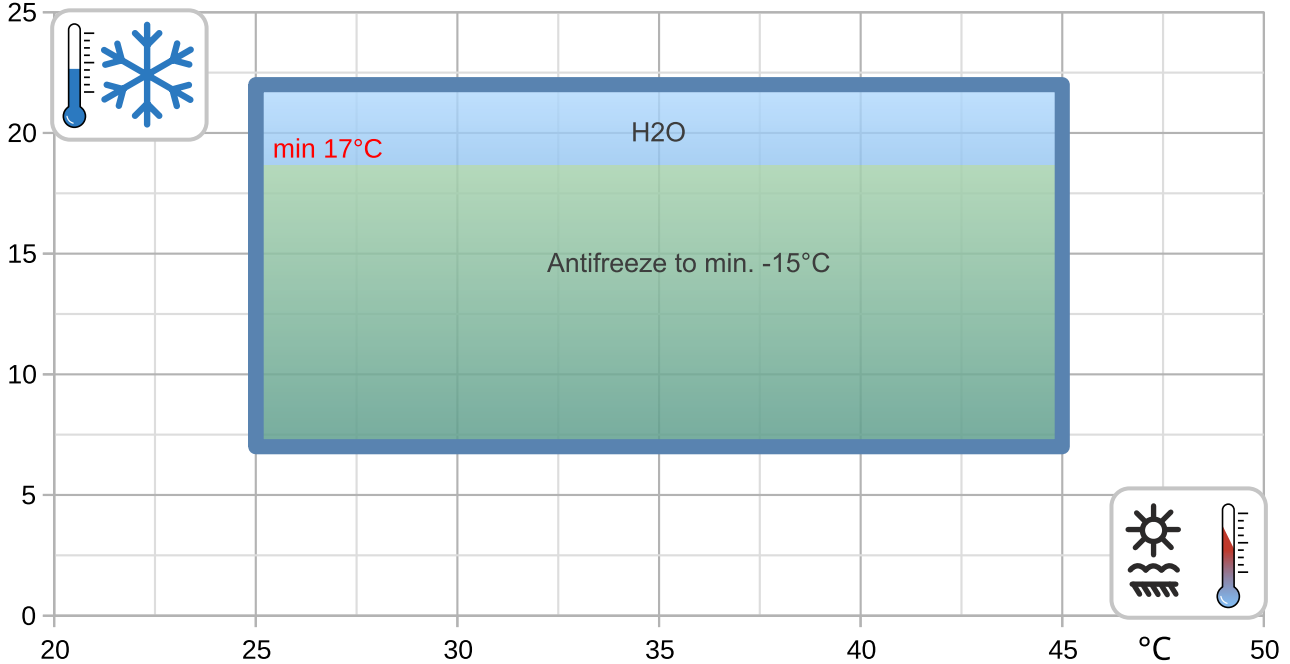
EER: Koeficient účinnosti pri nominálnom chladiacom výkone

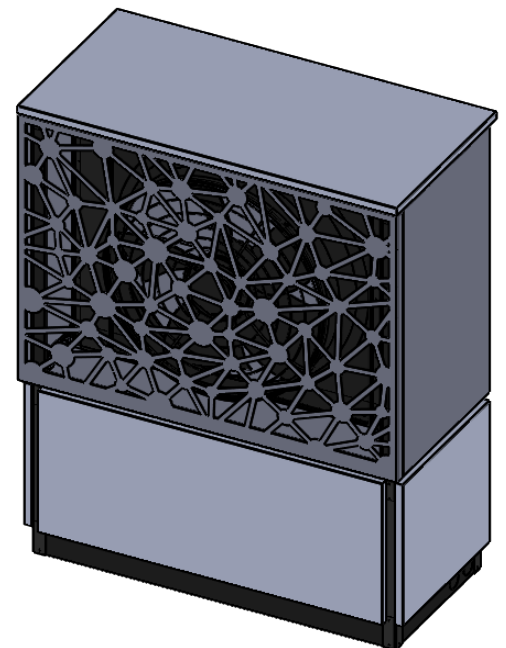
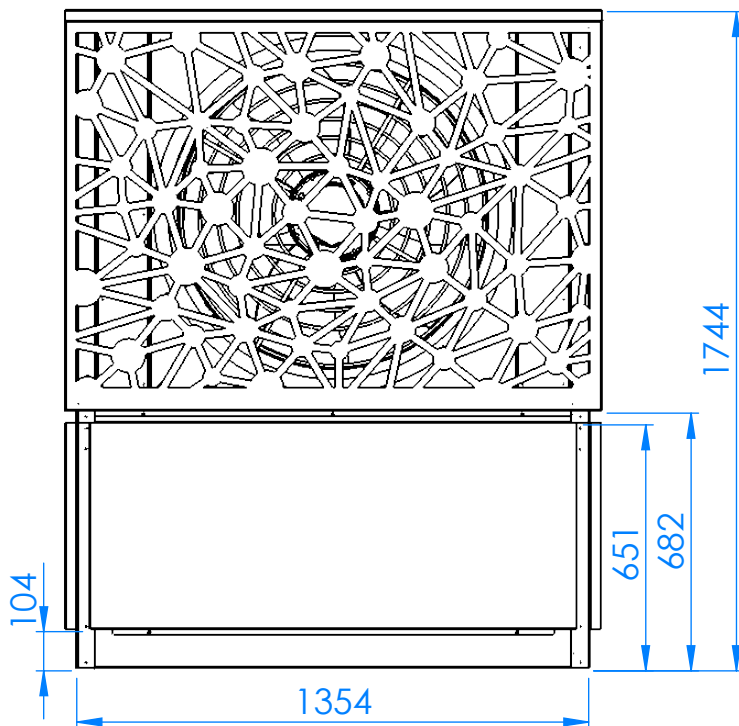
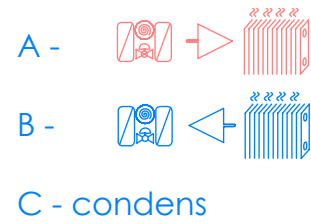
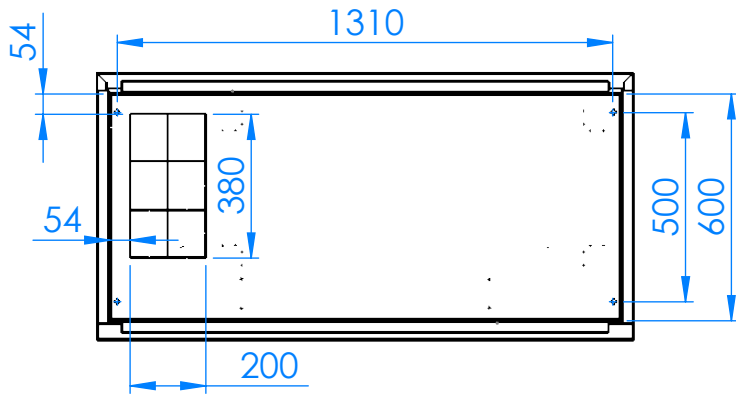
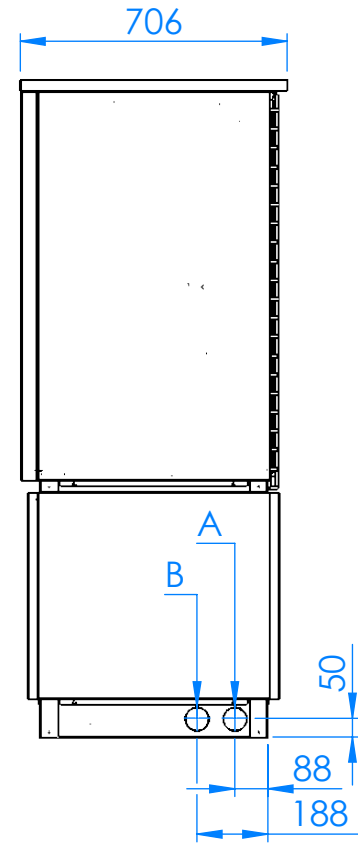
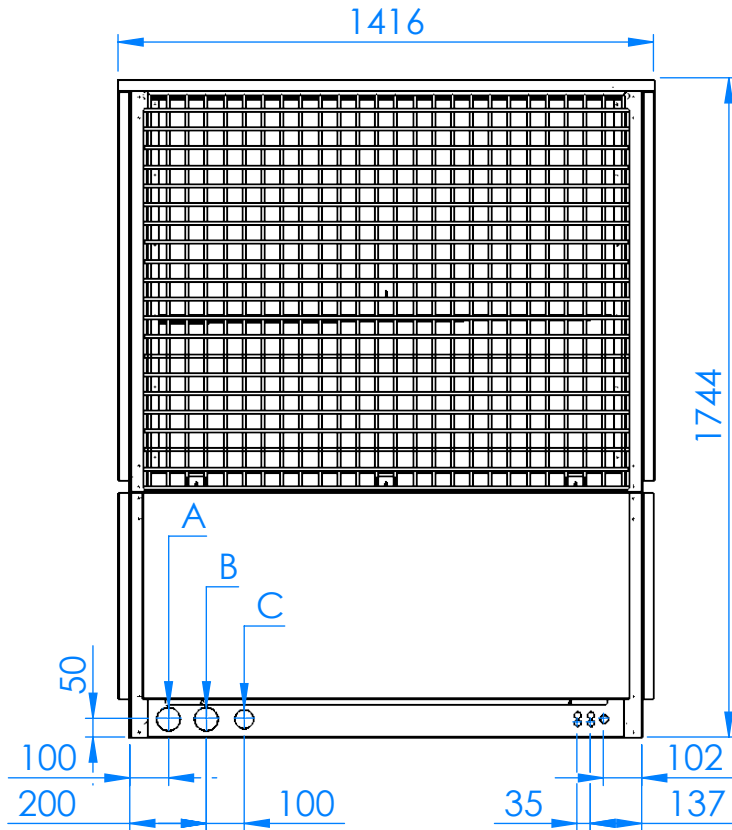
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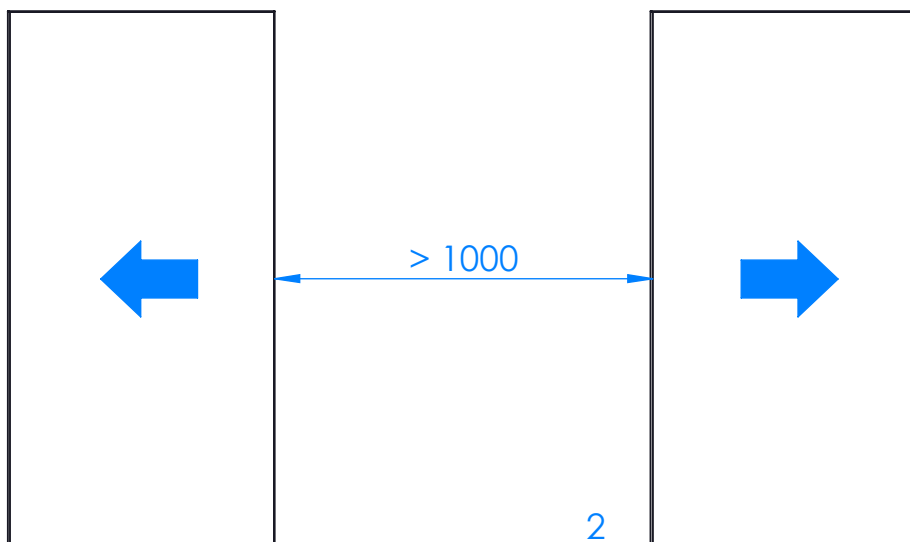
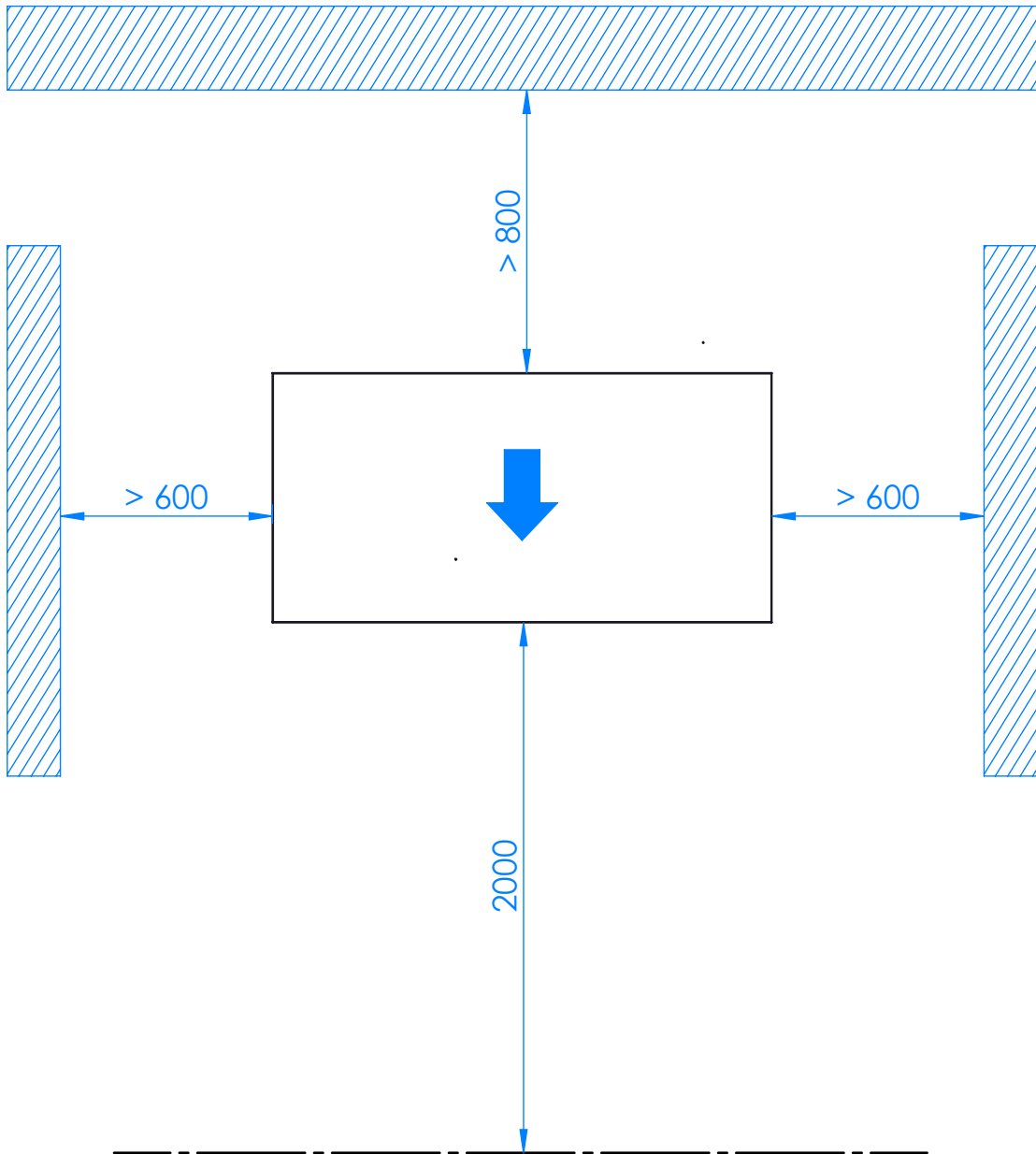
°C



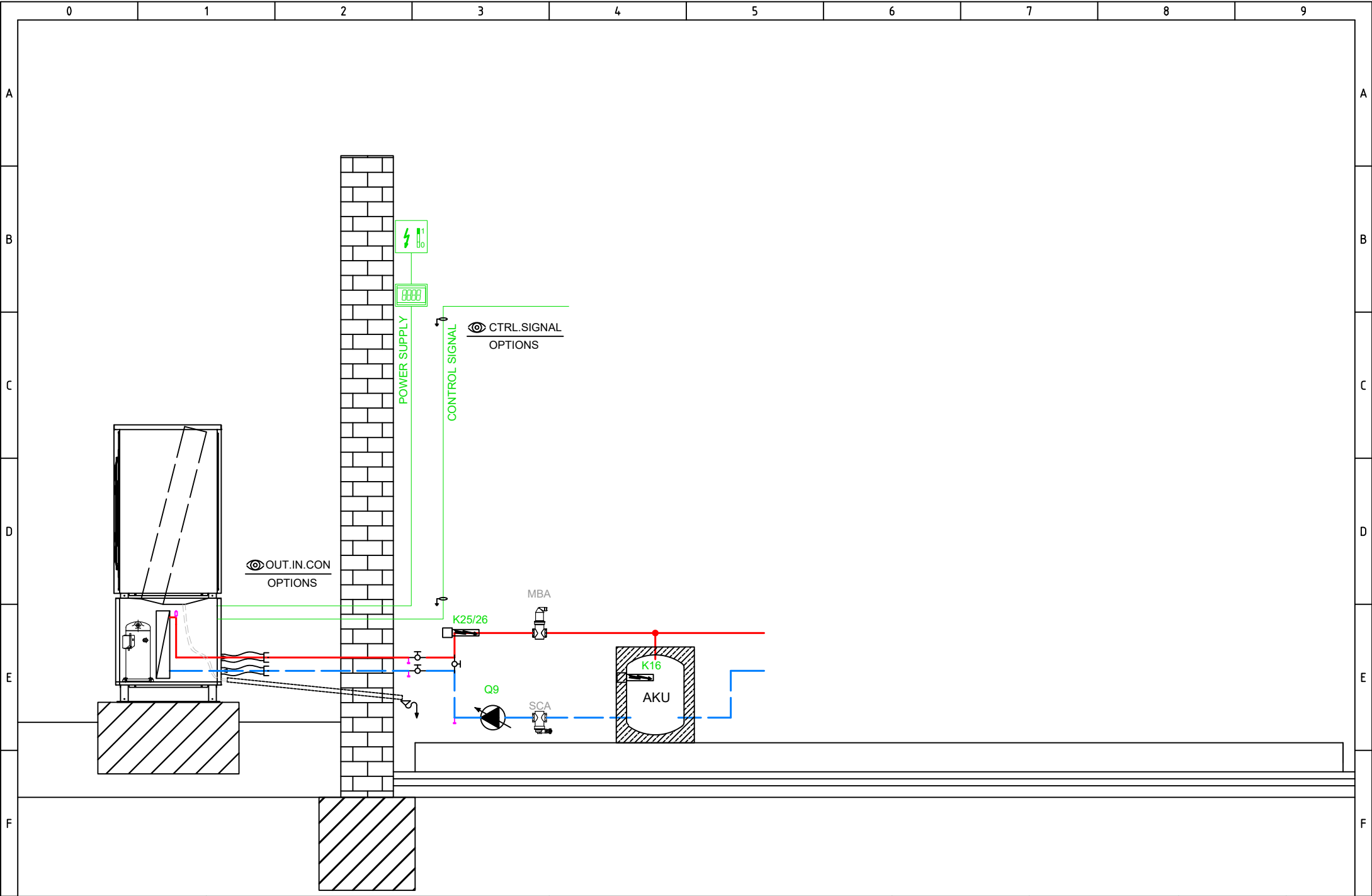
°C



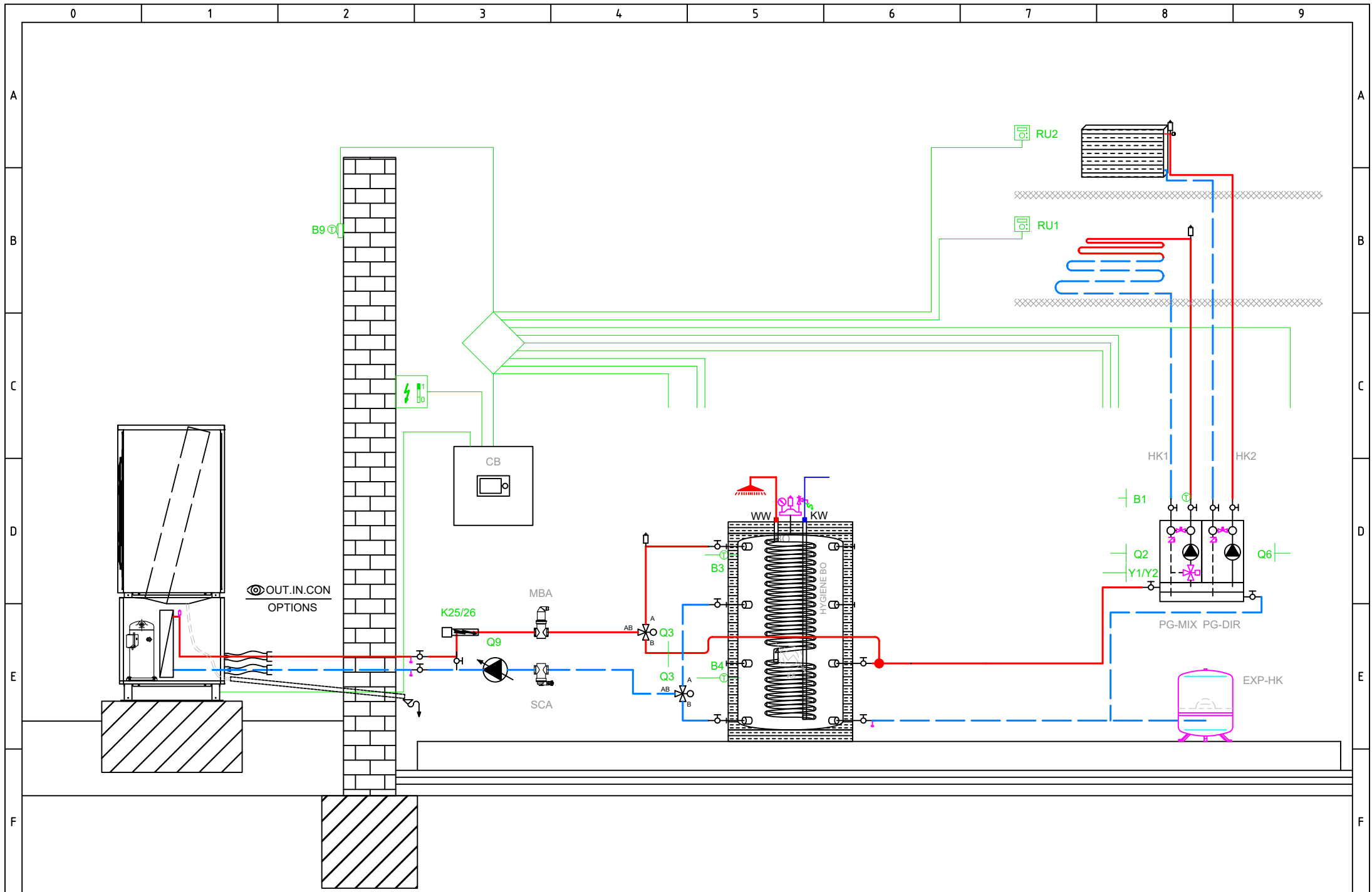




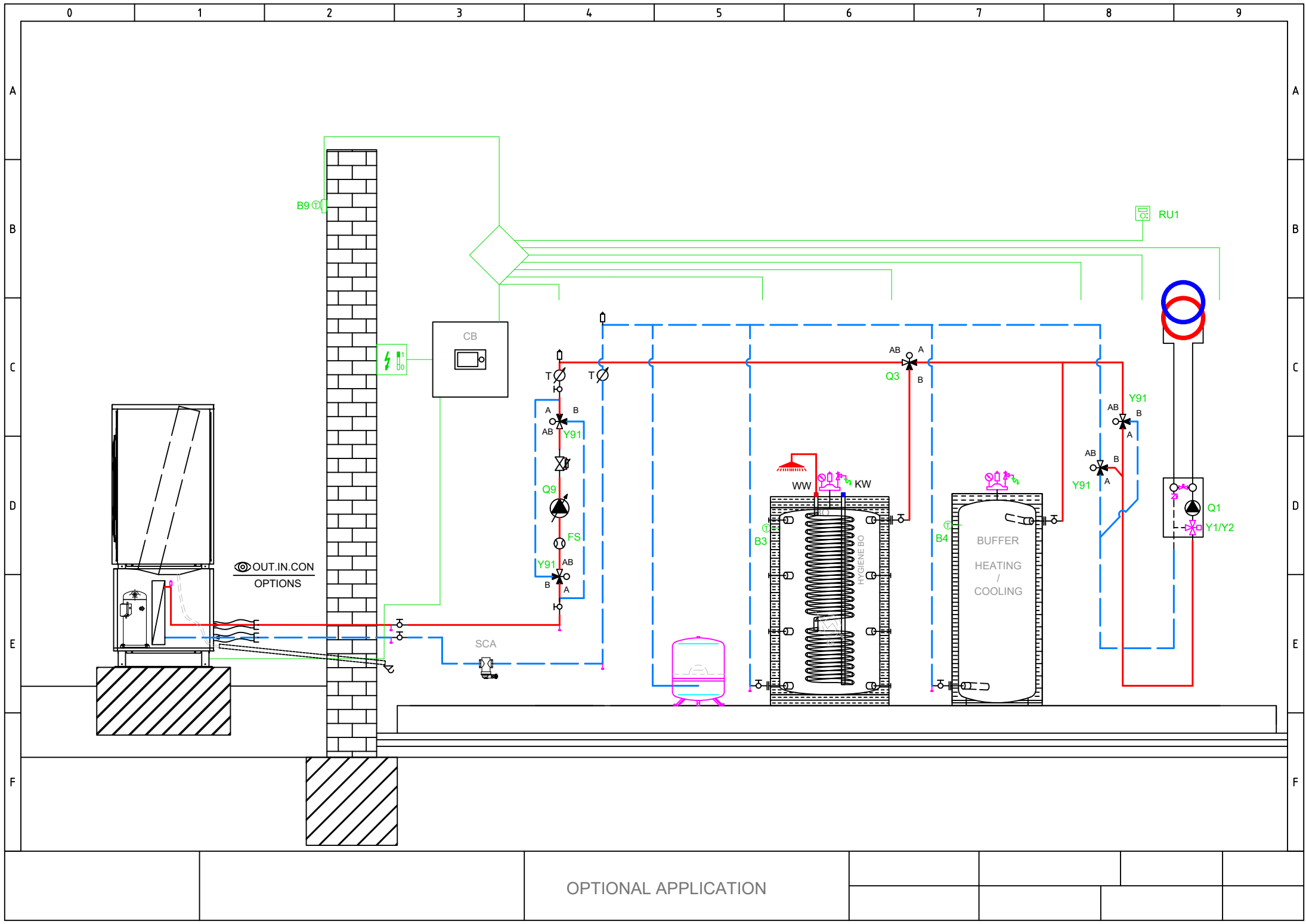




FACTORY SETTINGS



BASIC APPLICATION



OPTIONAL APPLICATION



Hlavné napájanie 230V / 50 Hz  
 Uzemnenie  
 Nulový vodič

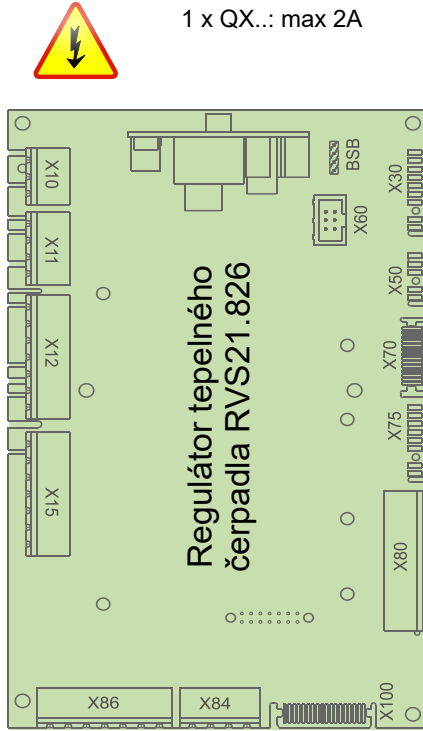
- E10 Spínač vysokého tlaku E10
- E11 Preťaženie kompresora E11
- E14 Preťaženie zdroja E14
- E24 Spínač prietoku spotreby E24
- K82 Ventil EVI K82

K40 Ohrev oleja K40

- L Fáza 230V
- K1 Kompresor I. stupeň K1
- Y22 Reverzný ventil Y22

Q9 Čerpadlo kondenzátora Q9

|     |   |      |
|-----|---|------|
| X10 | 1 | L    |
| X10 | 1 | PE   |
| X10 | 1 | N    |
| X11 | 1 | EX1  |
| X11 | 1 | EX2  |
| X11 | 1 | EX3  |
| X11 | 1 | EX4  |
| X12 | 1 | QX1  |
| X12 | 1 | N    |
| X12 | 1 | QX2  |
| X12 | 1 | QX2i |
| X12 | 1 | N    |
| X12 | 1 | FX3  |
| X15 | 1 | QX3  |
| X15 | 1 | QX4  |
| X15 | 1 | QX4i |
| X15 | 1 | N    |
| X15 | 1 | QX5  |
| X15 | 1 | N    |
| X15 | 1 | ZX6  |
| X15 | 1 | N    |
| X86 | 1 | GX1  |
| X86 | 1 | H3   |
| X86 | 1 | M    |
| X86 | 1 | H1   |
| X86 | 1 | G+   |
| X86 | 1 | M    |
| X86 | 1 | BSB  |



Total: max 6A  
 1 x QX...: max 2A



|     |
|-----|
| BSB |
| X30 |
| X60 |
| X50 |
| X70 |

- Pripojenie Servicetool (OCI700)
- Obslužná jednotka
- Modbus clip-in OCI351.01
- Rozširovací modul AVS75.xxx
- LPB clip-in

|     |
|-----|
| D1  |
| D2  |
| D3  |
| UX3 |
| M   |
| DI6 |
| DI7 |
| M   |

- D1 Digitálny výstup 1 kúrenia
- D2 Digitálny výstup 2 chladenia
- D3 Digitálny výstup 3 TČ Zap./Vyp.

- DI6 Digitálny vstup 6 odmrazenie
- DI7 Digitálny vstup 7 Alarm

|     |
|-----|
| BX1 |
| M   |
| BX2 |
| M   |
| UX1 |
| M   |
| UX2 |
| M   |

- B91 Snímač vstupu zdroja B91
- B84 Snímač výstupu zdroja B92/B84
- K19 Ventilátor K19
- 0..10V analógový signál
- Q9 Čerpadlo kondenzátora Q9
- PWM Signal

|     |
|-----|
| BX3 |
| M   |
| BX4 |
| M   |

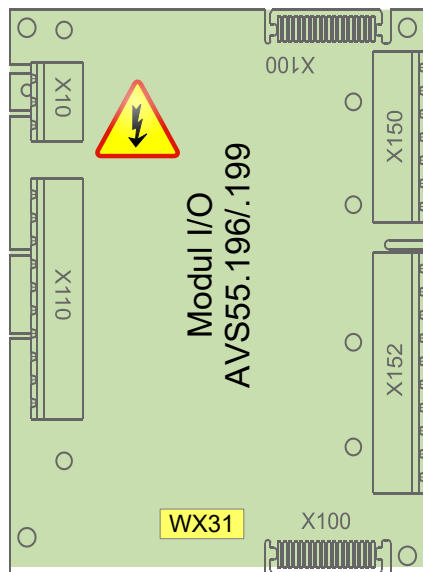
- B71 Snímač teploty spiatocky TČ B71
- B9 Snímač vonkajšej teploty B9

Hlavné napájanie 230V / 50 Hz  
 Uzemnenie  
 Nulový vodič

K10 Alarmový výstup K10

V81 EEV výparníka V81

|      |   |       |
|------|---|-------|
| X10  | 1 | L     |
| X10  | 1 | PE    |
| X10  | 1 | N     |
| X110 | 1 | QX31  |
| X110 | 1 | QX32  |
| X110 | 1 | QX33  |
| X110 | 1 | N     |
| X110 | 1 | QX33  |
| X110 | 1 | ZX34  |
| X110 | 1 | N     |
| X110 | 1 | QX35  |
| X110 | 1 | QX35i |
| X115 | 1 | N     |

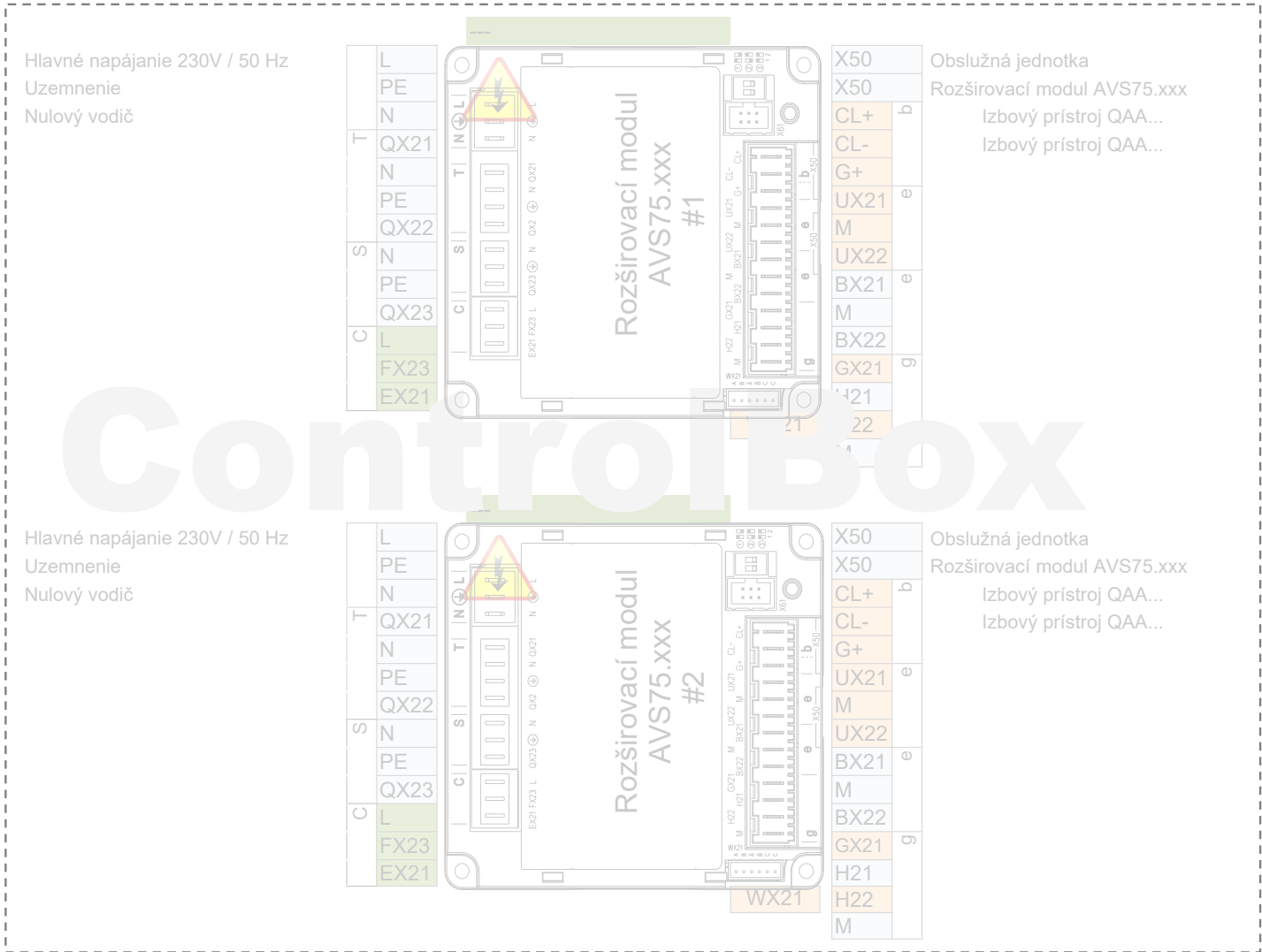


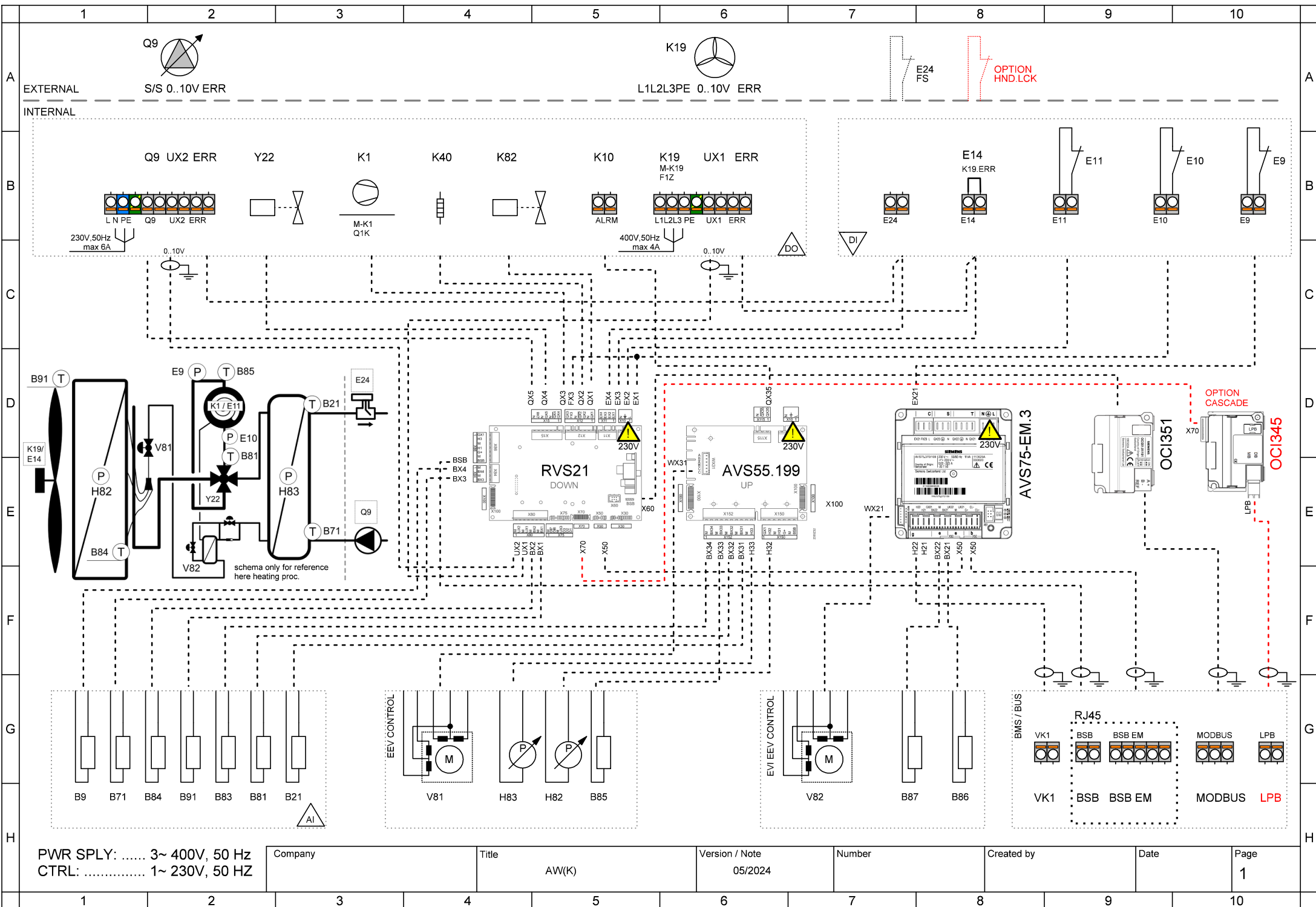
|      |
|------|
| BSB  |
| M    |
| G+   |
| H31  |
| M    |
| H32  |
| GX1  |
| H33  |
| M    |
| BX31 |
| M    |
| BX32 |
| M    |
| BX33 |
| M    |
| BX34 |
| M    |

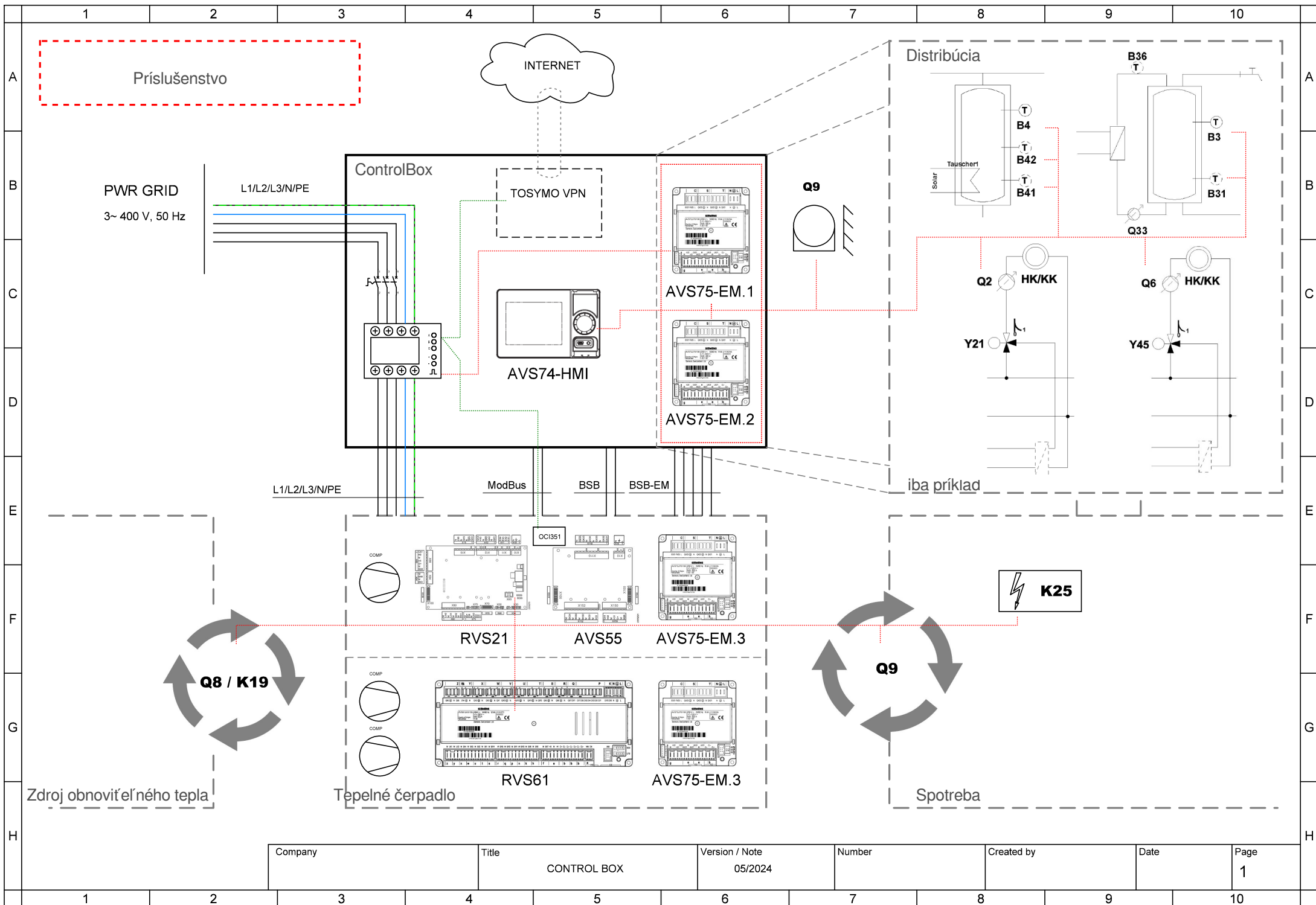
- 5V/12V aktívne snímače
- Meranie prietoku 10V
- Nízky tlak 0..10V
- 5V/12V aktívne snímače
- Vysoký tlak 0..10V
- B21 Snímač teploty výstupu TČ B21
- B81 Snímač horúcich plynov B81
- B85 Snímač plynov sania B85
- B83 Snímač chladiaceho média B83



- AVS75.390
- AVS75.391
- AVS75.370







|         |             |                |        |            |      |      |
|---------|-------------|----------------|--------|------------|------|------|
| Company | Title       | Version / Note | Number | Created by | Date | Page |
|         | CONTROL BOX | 05/2024        |        |            |      | 1    |



|         |             |                |        |            |      |      |
|---------|-------------|----------------|--------|------------|------|------|
| Company | Title       | Version / Note | Number | Created by | Date | Page |
|         | CONTROL BOX | 05/2024        |        |            |      | 2    |





| Company | Title       | Version / Note | Number | Created by | Date | Page |
|---------|-------------|----------------|--------|------------|------|------|
|         | CONTROL BOX | 05/2024        |        |            |      | 3    |

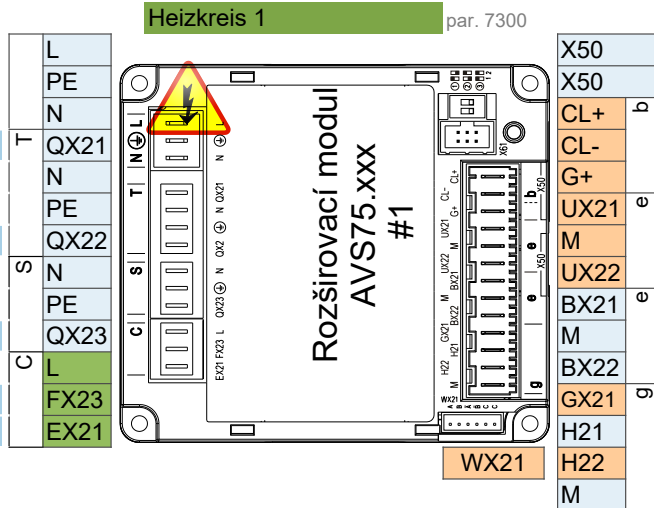


|         |             |                |        |            |      |      |
|---------|-------------|----------------|--------|------------|------|------|
| Company | Title       | Version / Note | Number | Created by | Date | Page |
|         | CONTROL BOX | 05/2024        |        |            |      | 4    |



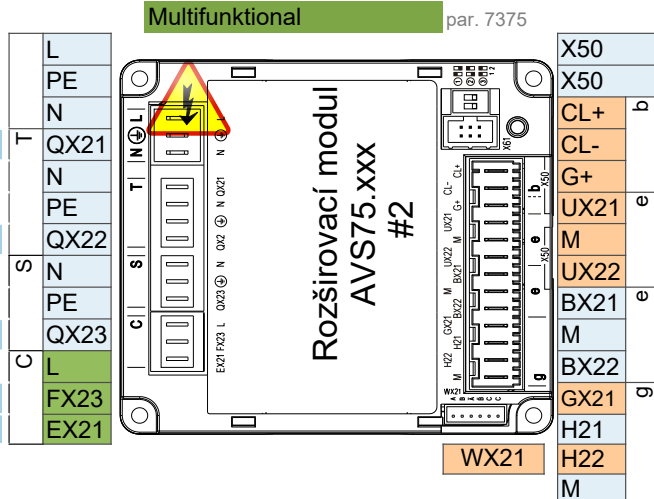
- AVS75.390
- AVS75.391
- AVS75.370

- AVS75.370**  
 Hlavné napájanie 230V / 50 Hz  
 Uzemnenie  
 Nulový vodič
- Y1 Zmiešavací ventil otváranie
  - Y2 Zmiešavací ventil zatvárať
  - Q2 Čerpadlo vyk. okruhu 1 Q2
  - L Fáza 230V
  - E61 Smart Grid E61



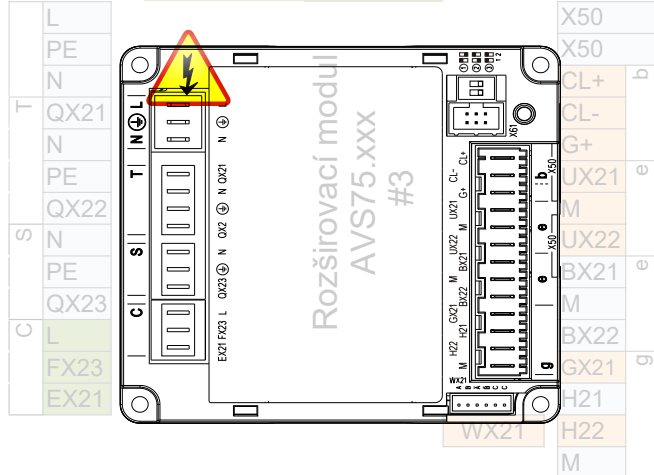
- Rozšiřovací modul AVS75.xxx  
 Izbový prístroj QAA...  
 Izbový prístroj QAA...
- B1 Snímač prietoku 1
  - Čítanie pulzov

- AVS75.370**  
 Hlavné napájanie 230V / 50 Hz  
 Uzemnenie  
 Nulový vodič
- Q3 Servopohon TUV Q3
  - K6 El. výhrevná vložka TUV K6
  - Q6 Čerpadlo vyk. okruhu 2 Q6
  - L Fáza 230V
  - E62 Smart Grid E62



- Obslužná jednotka  
 Rozšiřovací modul AVS75.xxx  
 Izbový prístroj QAA...  
 Izbový prístroj QAA...
- B3 Snímač TUV B3
  - B4 Snímač AKU zásobníka B4

- Hlavné napájanie 230V / 50 Hz  
 Uzemnenie  
 Nulový vodič



- Obslužná jednotka  
 Rozšiřovací modul AVS75.xxx  
 Izbový prístroj QAA...  
 Izbový prístroj QAA...

Pozor: Rozšiřovací modul 3 je v tepelnom čerpadle

### 1 ControlBox

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ControlBox s dvoma zabudovanými rozširujúcimi modulmi umožňuje početné možnosti ovládania aplikácie na strane spotrebiča za tepelným čerpadlom. Viac informácií nájdete v schéme ControlBoxu a v hárku s aplikačnými schémami.

### 2 Fixná žiadaná teplota výstupu - Zap / Vyp bezpotenciálny kontakt

---

2-vodičový tienený kábel 2 x 0,5 mm<sup>2</sup> - Nastavená hodnota = 45 °C (upraviteľné parametrom 1859)

Pripojovacia svorka - pozri schému zapojenia

### 3 Analógová regulácia žiadanej teploty výstupu 0..10V

---

2-vodičový tienený kábel 2 x 0,5 mm<sup>2</sup> - Nastavená hodnota: 0V = 16°C ~ 10V = 60°C ( možnosť úpravy v nastavení parametrov )

Pripojovacia svorka - pozri schému zapojenia

### 4 ModBus RTU komunikačný príkaz

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3 žilový tienený kábel min. 3 x 0,25 mm<sup>2</sup>

Pre tabuľku mapovania ModBus kontaktujte technickú podporu

### 5 MQTT IoT komunikačný protokol

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Pre viac informácií kontaktujte technickú podporu