

Základné údaje o výkone - WAMAK AW 100 EVI HeavyDuty 2L1

| Vykurovanie - EN 14511 | | |
|--|--------------------|----------------------|
| Tepelný výkon [kW] | A7 / W35 | 98.2 (49.1 / 98.2) |
| | A2 / W35 | 83.4 (41.7 / 83.4) |
| | A-7 / W34 | 70.0 (35.0 / 70.0) |
| Elektrický príkon [kW] | A7 / W35 | 22.8 (11.0 / 22.8) |
| | A2 / W35 | 22.7 (11.0 / 22.7) |
| | A-7 / W34 | 22.1 (10.6 / 22.1) |
| Tepelná účinnosť [COP] | A7 / W35 | 4.31 |
| | A2 / W35 | 3.67 |
| | A-7 / W34 | 3.17 |
| Sezónna tepelná účinnosť vykurovania - SCOP EN 14825 | | |
| Stredná klim. zóna / Nízka teplota [35°C] | SCOP | 4.21 |
| | η [%] | 168.4 |
| | Label | A+++ |
| | Qhe [kWh] | 38572.3 |
| | Pdesignh [kW] | 79.3 |
| | Tbivalent [°C] | -7 |
| Chladenie | | |
| Chladiaci výkon - [kW] | A35 / W23-18 | 96.9 |
| | A25 / W23-18 | 101.8 |
| | A35 / W12-7 | 72.8 |
| | A25 / W12-7 | 72.8 |
| Sezónna účinnosť chladenia - SEER EN 14825 | | |
| [W 23 / 18°C] | SEER | 4.51 |
| | Qce [kWh] | 43680.0 |
| | η_c [%] | 180.6 |
| Zvuk EN 12102 | | |
| Zvuk - výkon - Lw | dB(A) | 64.9 |
| Zvuk - tlak - Lp | 1 m dB(A) | 56.9 |
| | 5 m dB(A) | 42.9 |
| | 10 m dB(A) | 36.9 |
| Strojné a prevádzkové informácie | | |
| Typ kompresoru (3~ 400/50) | SCROLL / 2 / | Zap/Vyp |
| Chladivo | R410A (GWP - 2088) | 2 x 9.6 kg |
| Prevádzkové hraničné teploty vykurovania - (min / max) [°C] | | 25 / 65 |
| Prevádzkové hraničné teploty zdroja - (min / max) [°C] | | -22 / 40 |
| Váha zariadenia | | 495 kg |

Hlavné technické údaje - WAMAK AW 100 EVI HeavyDuty 2L1

| Označenie krytovania | | HD2L1 | | Údaje strany odovzdania tepelnej energie | | |
|---|--------------------------|-------------------|---|---|------------------------|-----|
| Základné rozmery | Výška [mm] | 2000 | | Prevádzkové hraničné teploty vykurovania | MAX [°C] | 65 |
| | Šírka [mm] | 820 | | | MIN [°C] | 25 |
| | Dĺžka [mm] | 1200 | | viac vid. diagram prevádzkových limitov | | |
| Váha zariadenia [kg] | 495 | | Kondenzátor | Pripojovacia dimenzia | 2 x 2 " | |
| Farba krytovania | Sivá | | | Typ | BPHE | |
| IP trieda krytovania | IP20 | | | Počet | 2 | |
| | | | | Materiál | AISI 316 | |
| Chladivový okruh | | | | Maximálny prevádzkový tlak - chladivo [bar] | 50 | |
| Kompresor | Typ | Scroll | | Maximálny prevádzkový tlak - Voda [bar] | 6 | |
| | Výkonové stupňe | 2 | | Testovací pretlak [bar] | 70 | |
| | Zap/Vyp | | | Teplonosné médium | Voda | |
| | Účinník Cosφ | 0.64 | | Objemový prietok @ dT 5K (nom) - Voda [m3/h] | 8.49 ~ 16.97 | |
| | Odpor vynutia kompresora | 0.76 Ohm | | Vnútorná tlaková strata - Voda [kPa] | 2 x 20 | |
| Chladivo | | R410A | | Teplotný spád @ 35°C (nom) | 5 K | |
| | Objem | 2 x 9.6 kg | | @ 55°C | 8 K | |
| | GWP | 2088 | | @ 65°C | 10 K | |
| | Bezpečnostná trieda | A1 | | | | |
| Typ oleja v okruhu | POE RL32-3MAF | | | Údaje strany odberu obnoviteľnej energie | | |
| | Objem oleja | 2 x 3.38 L | | Prevádzkové hraničné teploty zdroja | MIN [°C] | -22 |
| Maximálny tlak chladiva [bar] | | 50 | | | MAX [°C] | 40 |
| | PED trieda | 2 | | viac vid. diagram prevádzkových limitov | | |
| EVI - vstrek chladiva s ekonomizérom | | | Výparník | Pripojovacia dimenzia | 2 x (7/8" - 1.3/8") " | |
| APS systém podchladenia chladiva | | | | Typ | Cu-coil /Al-fin | |
| Reverzibilný chod (chladenie) | | | | Počet | 2 | |
| Reverzibilné odtavenie horúcimi parami | | | | Materiál | Cu/Al | |
| Ochrana doskového výmenníka horúcimi parami HG-BYPASS | | | Maximálny prevádzkový tlak - chladivo [bar] | 29 | | |
| Údaje elektrického pripojenia | | | Teplonosné médium | Vzduch | | |
| Elektro napájanie [#~ V/Hz] | 3~ 400/50 | | Objemový prietok - Vzduch [m3/h] | 15075 ~ 30150 | | |
| Prúd | nominálny [A] | 47.06 | | Vnútorná tlaková strata - Vzduch [kPa] | 2 x 0.061 | |
| | maximálny [A] | 74.80 | | Teplotný spád - Vzduch | 7 K | |
| | štartovací [A] | 57.2 | | Možné vonkajšie jednotky | 1 x VOV900X2-FRAME | |
| Softštartér | - | | 2 x VOII-1200-2LOW | | | |
| Hlavný istič - charakteristika | C80 | | 2 x VOII-1200-2HIGH | | | |
| | | | 2 x VOII-1200-2LOW-DUCT | | | |
| | | | 2 x VOII-1200-2HIGH-DUCT | | | |
| Riadiaci systém | | | Slit systém (kompresor v interieri) | | | |
| Hlavný regulátor | SIEMENS | RVS 21 AVS 55.199 | | Dimenzia tekutinové potrubie (do 8 metrov VN/VO) | 2 x 7/8" | |
| Rozširovací modul | AVS75.3xx | AVS75.3xx | AVS75.372 | Dimenzia sacie potrubie (do 8 metrov VN/VO) | 2 x 1.3/8" | |
| Bus Clip-In | | LPB OCI345 | Modbus OCI351 | Náplň nad 8 metrov dĺžky prepoja | 2 x 0.35 kg/m | |
| Online pripojenie | | Web server OZW672 | ToSyMo | pri Split systémoch je vnútorná jednotka TC predplnená iba minimálnym pretlakom chladiva ktoré ostalo v systéme po funkčnej skúške. | | |
| Regulácia EEV | | | SEC61 | | | |

*** s príslušenstvom

WAMAK AW 100 EVI HeavyDuty 2L1

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

| | |
|---|---------------------------------|
| Model | AW 100 EVI HeavyDuty 2L1 |
| 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 | 79.3 | kW | Sezónna energetická účinnosť vykurovania priestoru | ηs | 168.4 | % |
| 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 | 70.0 | kW | Tj = -7 °C | COPd | 3.17 | - |
| Tj = +2 °C | Pdh | 82.5 | kW | Tj = +2 °C | COPd | 4.1 | - |
| Tj = +7 °C | Pdh | 97.2 | kW | Tj = +7 °C | COPd | 5.1 | - |
| Tj = +12 °C | Pdh | 114.9 | kW | Tj = +12 °C | COPd | 6.4 | - |
| Tj = bivalentná teplota | Pdh | 68.8 | kW | Tj = bivalentná teplota | COPd | 3.1 | - |
| Tj = hraničná prevádzková teplota | Pdh | 50.2 | kW | Tj = hraničná prevádzková teplota | COPd | 2.3 | - |
| 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 | 0.040 | kW | Prídavný ohrievač | | | |
| Režim vypnutia termostatu | Pto | 0.010 | kW | Menovitý tepelný výkon | Psup | 35.1 | kW |
| Pohotovostný režim | Psb | 0.010 | kW | Typ príkonu energie | | | elektrická |
| Režim ohrevu kľukovej skrine | Pck | 0.050 | kW | | | | |
| Ostatné položky | | | | | | | |
| Regulácia výkonu | | viacero stupňov | | Pre tepelné čerpadlá vzduch-voda: Menovitý prietok vzduchu, vonku | - | 15075 ~ 30150 | m3/h |
| Úroveň akustického výkonu | | | | Pre tepelné čerpadlá voda-voda alebo soľanka-voda: Menovitý prietok soľanky alebo vody, vonkajší výmenník tepla | - | --- | m3/h |
| v interiéri | Lwa | 65 | dB | | | | |
| vonku | Lwa | 73 | dB | | | | |
| Ročná spotreba energie | QHE | 38572.3 | kWh | | | | |

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

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

| | |
|---|---------------------------------|
| Model | AW 100 EVI HeavyDuty 2L1 |
| 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 | 83.2 | kW | Sezónna energetická účinnosť vykurovania priestoru | η_s | 131.9 | % |
| 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 | 73.1 | kW | Tj = -7 °C | COPd | 2.24 | - |
| Tj = +2 °C | Pdh | 84.5 | kW | Tj = +2 °C | COPd | 3.2 | - |
| Tj = +7 °C | Pdh | 98.3 | kW | Tj = +7 °C | COPd | 4.2 | - |
| Tj = +12 °C | Pdh | 115.1 | kW | Tj = +12 °C | COPd | 5.6 | - |
| Tj = bivalentná teplota | Pdh | 72.3 | kW | Tj = bivalentná teplota | COPd | 2.1 | - |
| Tj = hraničná prevádzková teplota | Pdh | 52.9 | kW | Tj = hraničná prevádzková teplota | COPd | 1.6 | - |
| 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 | 0.040 | kW | Prídavný ohrievač | | | |
| Režim vypnutia termostatu | Pto | 0.010 | kW | Menovitý tepelný výkon | Psup | 35.1 | kW |
| Pohotovostný režim | Psb | 0.010 | kW | Typ príkonu energie | elektrická | | |
| Režim ohrevu kľukovej skrine | Pck | 0.050 | kW | | | | |
| Ostatné položky | | | | | | | |
| Regulácia výkonu | viacero stupňov | | | Pre tepelné čerpadlá vzduch-voda: Menovitý prietok vzduchu, vonku | - | 15075 ~ 30150 | m ³ /h |
| Úroveň akustického výkonu | | | | Pre tepelné čerpadlá voda-voda alebo soľanka-voda: Menovitý prietok soľanky alebo vody, vonkajší výmenník tepla | - | --- | m ³ /h |
| v interiéri | Lwa | 65 | dB | | | | |
| vonku | Lwa | 73 | dB | | | | |
| Ročná spotreba energie | Q _{HE} | 51768.3 | kWh | | | | |

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



ENERG Y IIA
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AW 100 EVI
 HeavyDuty 2L1



55 °C

35 °C



65 dB

73 dB

| | |
|----|----|
| 88 | 81 |
| 84 | 80 |
| 82 | 76 |
| kW | kW |

2019

811/2013

AW 100 EVI HeavyDuty
 2L1

ErP Data

| | 55 °C | 35 °C |
|---------------------|-------|-------|
| Energy class | A++ | A+++ |
| η [%] | 131.9 | 168.4 |
| P_{rated} [kW] | 84 | 80 |
| Q_{HE} [kWh/y] | 51769 | 38573 |
| SCOP [-] | 3.30 | 4.21 |
| $T_{bivalent}$ [°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]

ZHI46K1P-TWD_R410A_2_AW

| Prevádzkové podmienky | Qh | P | COP |
|-----------------------|-------|------|------|
| 1 A7 / W30-35 | 98.2 | 22.8 | 4.31 |
| 2 A2 / W35 | 83.4 | 22.7 | 3.67 |
| 3 A-22 / W35 | 50.2 | 21.7 | 2.31 |
| A A-7 / W34 | 70.0 | 22.1 | 3.17 |
| B A2 / W30 | 82.5 | 20.3 | 4.06 |
| C A7 / W27 | 97.2 | 19.0 | 5.11 |
| D A12 / W24 | 114.9 | 17.9 | 6.41 |
| E A-10 / W35 | 68.8 | 22.6 | 3.05 |
| F A-7 / W34 | 70.0 | 22.1 | 3.17 |

| SCOP DATA EN 14825:2018 | |
|---|-----------|
| Stredná klim. zóna / Nízka teplota [35°C] | |
| SCOPon | 4.25 |
| SCOPnet | 4.28 |
| SCOP | 4.21 |
| η [%] | 168.38 |
| Label | A+++ |
| Qh [kWh] | 163833.80 |
| Pdesignh [kW] | 79.3 |
| Tbivalent [°C] | -7.00 |

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

| Prevádzkové podmienky | Qh | P | COP |
|-----------------------|-------|------|------|
| 1 A7 / W47-55 | 100.2 | 35.7 | 2.81 |
| 2 A2 / W55 | 86.4 | 35.4 | 2.44 |
| 3 A-22 / W55 | 52.9 | 30.3 | 1.62 |
| A A-7 / W52 | 73.1 | 32.6 | 2.24 |
| B A2 / W42 | 84.5 | 26.5 | 3.18 |
| C A7 / W36 | 98.3 | 23.3 | 4.22 |
| D A12 / W30 | 115.1 | 20.4 | 5.64 |
| E A-10 / W55 | 72.3 | 34.8 | 2.08 |
| F A-7 / W55 | 73.6 | 34.9 | 2.11 |

| SCOP DATA EN 14825:2018 | |
|---|-----------|
| Stredná klim. zóna / Stredná teplota [55°C] | |
| SCOPon | 3.32 |
| SCOPnet | 3.34 |
| SCOP | 3.30 |
| η [%] | 131.92 |
| Label | A++ |
| Qh [kWh] | 171891.20 |
| Pdesignh [kW] | 83.2 |
| Tbivalent [°C] | -7.00 |

Chladiaci výkon - prevádzkové dáta

Nízkoteplotné chladenie W 12 / 7°C

| Prevádzkové podmienky | Qc | P | EER |
|-----------------------|------|------|------|
| A A35 / W12-7 | 72.8 | 27.2 | 2.68 |
| B A30 / W12-7 | 74.8 | 24.3 | 3.07 |
| C A25 / W12-7 | 76.5 | 21.8 | 3.51 |
| D A20 / W12-7 | 77.9 | 19.5 | 4.00 |

| SEER DATA EN 14825:2018 [W 12 / 7°C] | |
|--|----------|
| SEERon | 3.43 |
| SEER | 3.40 |
| Qc [kWh] | 43680.00 |
| η [%] | 135.99 |

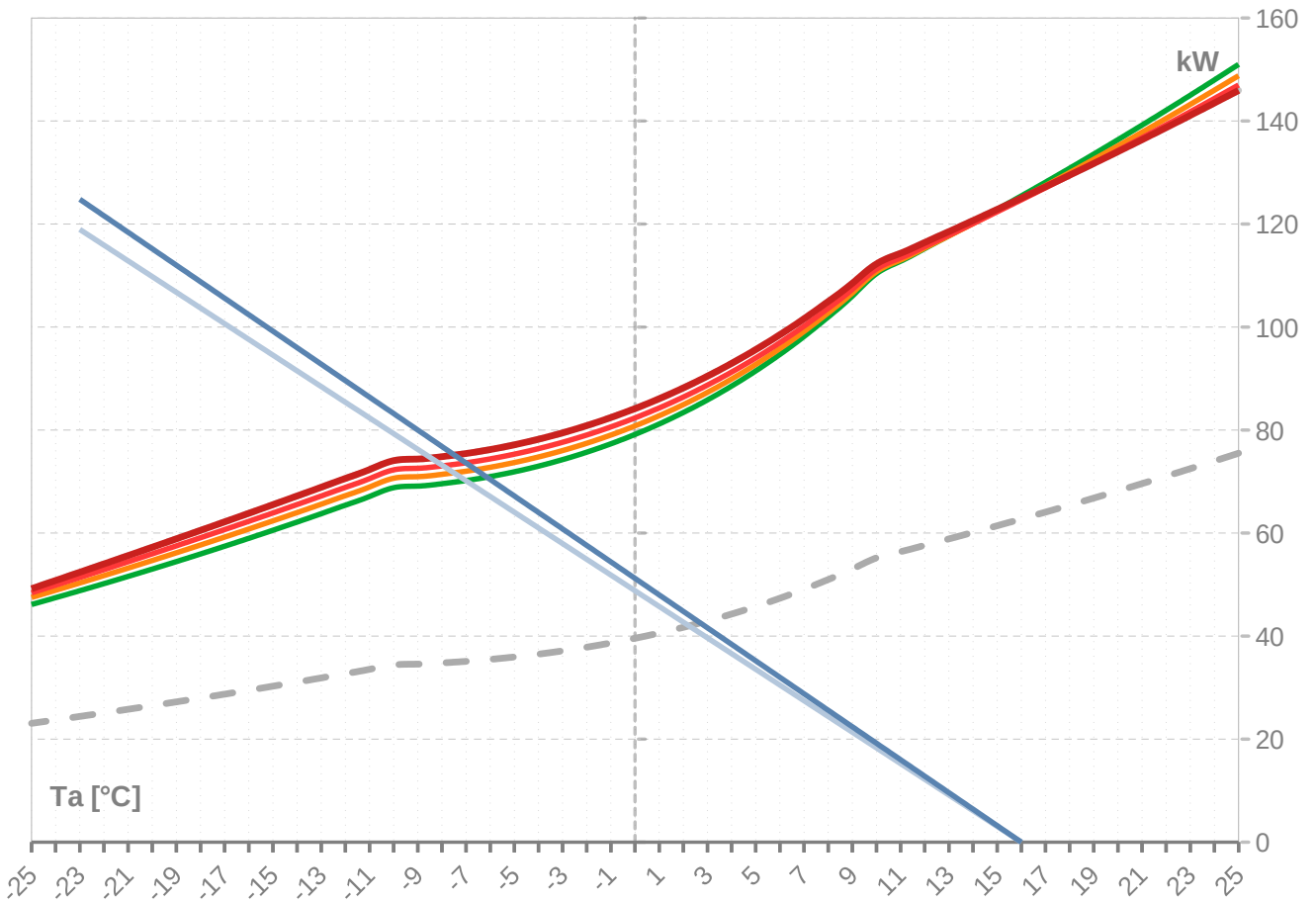
Plošné chladenie W 23 / 18°C

| Prevádzkové podmienky | Qc | P | EER |
|-----------------------|-------|------|------|
| A A35 / W23-18 | 96.9 | 27.2 | 3.56 |
| B A30 / W23-18 | 99.5 | 22.5 | 4.09 |
| C A25 / W23-18 | 101.8 | 20.2 | 4.67 |
| D A20 / W23-18 | 103.8 | 18.2 | 5.34 |

| SEER DATA EN 14825:2018 [W 23 / 18°C] | |
|---|----------|
| SEERon | 4.57 |
| SEER | 4.51 |
| Qc [kWh] | 43680.00 |
| η [%] | 180.57 |

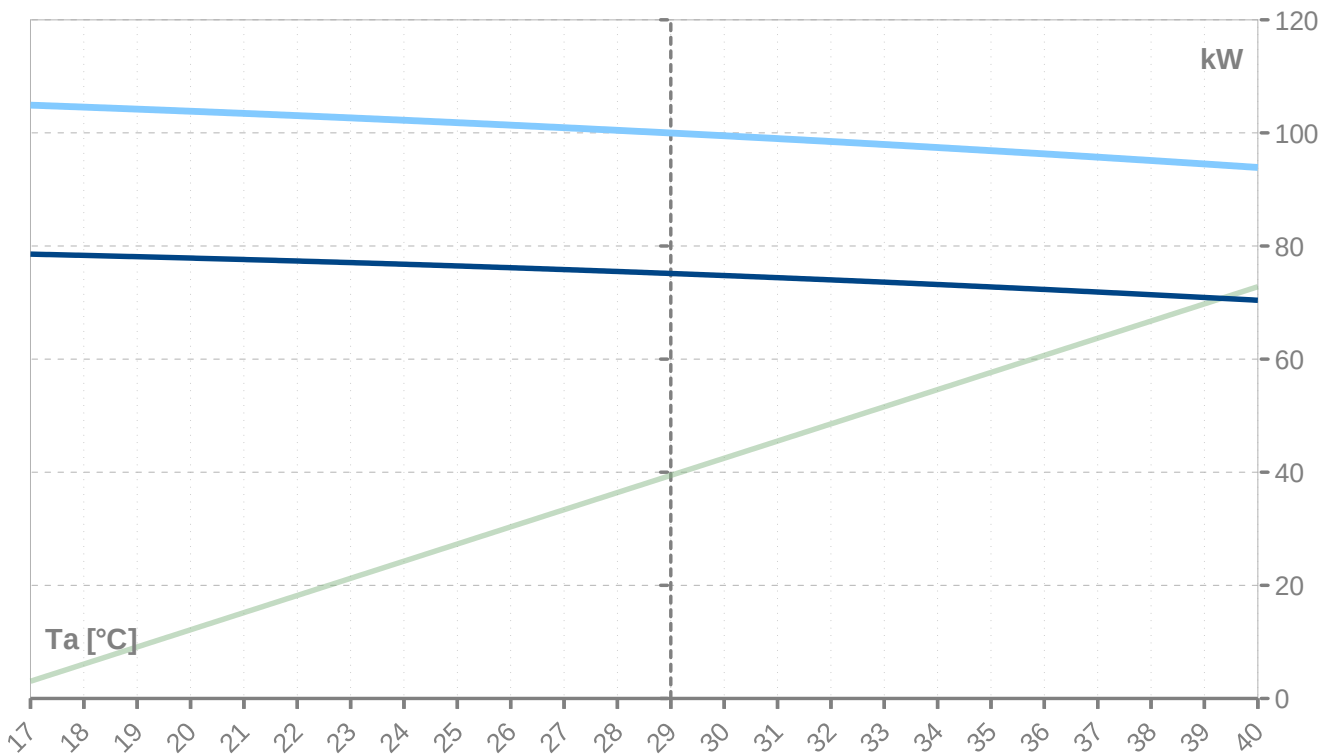
Výkonové kryvky - vykurovanie

- 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 | 128.1 | 64.1 | | 22.8 | 11.0 | | 5.62 | 46.5 | 23.3 | |
| 24 | 128.1 | 64.1 | | 22.8 | 11.0 | | 5.62 | 46.5 | 23.3 | |
| 23 | 128.1 | 64.1 | | 22.8 | 11.0 | | 5.62 | 46.5 | 23.3 | |
| 22 | 128.1 | 64.1 | | 22.8 | 11.0 | | 5.62 | 46.5 | 23.3 | |
| 21 | 128.1 | 64.1 | | 22.8 | 11.0 | | 5.62 | 46.5 | 23.3 | |
| 20 | 128.1 | 64.1 | | 22.8 | 11.0 | | 5.62 | 46.5 | 23.3 | |
| 19 | 128.1 | 64.1 | | 22.8 | 11.0 | | 5.62 | 46.5 | 23.3 | |
| 18 | 128.1 | 64.1 | | 22.8 | 11.0 | | 5.62 | 46.5 | 23.3 | |
| 17 | 128.1 | 64.1 | | 22.8 | 11.0 | | 5.62 | 46.5 | 23.3 | |
| 16 | 125.5 | 62.7 | 125.5 | 22.8 | 11.0 | 22.8 | 5.51 | 46.6 | 23.3 | 46.6 |
| 15 | 122.8 | 61.4 | 122.8 | 22.8 | 11.0 | 22.8 | 5.40 | 46.6 | 23.3 | 46.6 |
| 14 | 120.3 | 60.1 | 120.3 | 22.8 | 11.0 | 22.8 | 5.28 | 46.7 | 23.3 | 46.7 |
| 13 | 117.7 | 58.9 | 117.7 | 22.8 | 11.0 | 22.8 | 5.17 | 46.7 | 23.4 | 46.7 |
| 12 | 115.2 | 57.6 | 115.2 | 22.8 | 11.0 | 22.8 | 5.06 | 46.8 | 23.4 | 46.8 |
| 11 | 112.8 | 56.4 | 112.8 | 22.8 | 11.0 | 22.8 | 4.96 | 46.8 | 23.4 | 46.8 |
| 10 | 110.4 | 55.2 | 110.4 | 22.8 | 11.0 | 22.8 | 4.85 | 46.9 | 23.4 | 46.9 |
| 9 | 106.0 | 53.0 | 106.0 | 22.8 | 11.0 | 22.8 | 4.66 | 47.0 | 23.5 | 47.0 |
| 8 | 102.0 | 51.0 | 102.0 | 22.8 | 11.0 | 22.8 | 4.48 | 47.1 | 23.5 | 47.1 |
| 7 | 98.2 | 49.1 | 98.2 | 22.8 | 11.0 | 22.8 | 4.31 | 47.1 | 23.6 | 47.1 |
| 6 | 94.7 | 47.3 | 94.7 | 22.8 | 11.0 | 22.8 | 4.16 | 47.2 | 23.6 | 47.2 |
| 5 | 91.5 | 45.7 | 91.5 | 22.8 | 11.0 | 22.8 | 4.02 | 47.3 | 23.7 | 47.3 |
| 4 | 88.5 | 44.3 | 88.5 | 22.8 | 11.0 | 22.8 | 3.89 | 47.4 | 23.7 | 47.4 |
| 3 | 85.9 | 42.9 | 85.9 | 22.8 | 11.0 | 22.8 | 3.77 | 47.4 | 23.7 | 47.4 |
| 2 | 83.4 | 41.7 | 83.4 | 22.7 | 11.0 | 22.7 | 3.67 | 47.4 | 23.7 | 47.4 |
| 1 | 81.2 | 40.6 | 81.2 | 22.7 | 11.0 | 22.7 | 3.57 | 47.5 | 23.7 | 47.5 |
| 0 | 79.1 | 39.6 | 79.1 | 22.7 | 10.9 | 22.7 | 3.49 | 47.5 | 23.7 | 47.5 |
| -1 | 77.3 | 38.7 | 77.3 | 22.7 | 10.9 | 22.7 | 3.41 | 47.5 | 23.7 | 47.5 |
| -2 | 75.7 | 37.9 | 75.7 | 22.7 | 10.9 | 22.7 | 3.34 | 47.5 | 23.7 | 47.5 |
| -3 | 74.3 | 37.1 | 74.3 | 22.7 | 10.9 | 22.7 | 3.28 | 47.5 | 23.7 | 47.5 |
| -4 | 73.0 | 36.5 | 73.0 | 22.6 | 10.9 | 22.6 | 3.22 | 47.5 | 23.7 | 47.5 |
| -5 | 71.9 | 35.9 | 71.9 | 22.6 | 10.9 | 22.6 | 3.18 | 47.5 | 23.7 | 47.5 |
| -6 | 71.0 | 35.5 | 71.0 | 22.6 | 10.9 | 22.6 | 3.14 | 47.5 | 23.7 | 47.5 |
| -7 | 70.2 | 35.1 | 70.2 | 22.6 | 10.9 | 22.6 | 3.11 | 47.4 | 23.7 | 47.4 |
| -8 | 69.6 | 34.8 | 69.6 | 22.6 | 10.9 | 22.6 | 3.08 | 47.4 | 23.7 | 47.4 |
| -9 | 69.1 | 34.6 | 69.1 | 22.6 | 10.9 | 22.6 | 3.06 | 47.4 | 23.7 | 47.4 |
| -10 | 68.8 | 34.4 | 68.8 | 22.6 | 10.9 | 22.6 | 3.05 | 47.4 | 23.7 | 47.4 |
| -11 | 67.1 | 33.5 | 67.1 | 22.5 | 10.8 | 22.5 | 2.98 | 47.4 | 23.7 | 47.4 |
| -12 | 65.4 | 32.7 | 65.4 | 22.5 | 10.8 | 22.5 | 2.91 | 47.3 | 23.7 | 47.3 |
| -13 | 63.8 | 31.9 | 63.8 | 22.4 | 10.8 | 22.4 | 2.84 | 47.2 | 23.6 | 47.2 |
| -14 | 62.1 | 31.1 | 62.1 | 22.4 | 10.8 | 22.4 | 2.78 | 47.2 | 23.6 | 47.2 |
| -15 | 60.5 | 30.3 | 60.5 | 22.3 | 10.7 | 22.3 | 2.72 | 47.1 | 23.5 | 47.1 |
| -16 | 59.0 | 29.5 | 59.0 | 22.2 | 10.7 | 22.2 | 2.65 | 47.0 | 23.5 | 47.0 |
| -17 | 57.4 | 28.7 | 57.4 | 22.2 | 10.7 | 22.2 | 2.59 | 46.8 | 23.4 | 46.8 |
| -18 | 55.9 | 28.0 | 55.9 | 22.1 | 10.6 | 22.1 | 2.53 | 46.7 | 23.3 | 46.7 |
| -19 | 54.5 | 27.2 | 54.5 | 22.0 | 10.6 | 22.0 | 2.48 | 46.5 | 23.3 | 46.5 |
| -20 | 53.0 | 26.5 | 53.0 | 21.9 | 10.5 | 21.9 | 2.42 | 46.4 | 23.2 | 46.4 |
| -21 | 51.6 | 25.8 | 51.6 | 21.8 | 10.5 | 21.8 | 2.37 | 46.2 | 23.1 | 46.2 |
| -22 | 50.2 | 25.1 | 50.2 | 21.7 | 10.4 | 21.7 | 2.31 | 46.0 | 23.0 | 46.0 |
| -23 | 48.8 | 24.4 | 48.8 | 21.6 | 10.4 | 21.6 | 2.26 | 45.7 | 22.9 | 45.7 |
| -24 | 47.5 | 23.7 | 47.5 | 21.4 | 10.3 | 21.4 | 2.21 | 45.5 | 22.8 | 45.5 |
| -25 | 46.1 | 23.1 | 46.1 | 21.3 | 10.3 | 21.3 | 2.17 | 45.2 | 22.6 | 45.2 |

* pozor: pracovný rozsah nie je zohľadnený v tabuľke

ZHI46K1P-TWD_R410A_2_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 | 148.8 | 74.4 | 148.8 | 28.2 | 13.6 | 28.2 | 5.27 | 53.1 | 26.5 | 53.1 |
| 24 | 146.0 | 73.0 | 146.0 | 28.2 | 13.6 | 28.2 | 5.17 | 53.0 | 26.5 | 53.0 |
| 23 | 143.2 | 71.6 | 143.2 | 28.2 | 13.6 | 28.2 | 5.07 | 53.0 | 26.5 | 53.0 |
| 22 | 140.5 | 70.2 | 140.5 | 28.2 | 13.6 | 28.2 | 4.98 | 53.0 | 26.5 | 53.0 |
| 21 | 137.8 | 68.9 | 137.8 | 28.2 | 13.6 | 28.2 | 4.88 | 53.0 | 26.5 | 53.0 |
| 20 | 135.2 | 67.6 | 135.2 | 28.3 | 13.6 | 28.3 | 4.78 | 53.1 | 26.5 | 53.1 |
| 19 | 132.6 | 66.3 | 132.6 | 28.3 | 13.6 | 28.3 | 4.69 | 53.1 | 26.5 | 53.1 |
| 18 | 130.0 | 65.0 | 130.0 | 28.3 | 13.6 | 28.3 | 4.60 | 53.1 | 26.5 | 53.1 |
| 17 | 127.4 | 63.7 | 127.4 | 28.3 | 13.6 | 28.3 | 4.50 | 53.1 | 26.6 | 53.1 |
| 16 | 125.0 | 62.5 | 125.0 | 28.3 | 13.6 | 28.3 | 4.41 | 53.1 | 26.6 | 53.1 |
| 15 | 122.5 | 61.2 | 122.5 | 28.3 | 13.7 | 28.3 | 4.32 | 53.1 | 26.6 | 53.1 |
| 14 | 120.1 | 60.0 | 120.1 | 28.3 | 13.7 | 28.3 | 4.24 | 53.2 | 26.6 | 53.2 |
| 13 | 117.7 | 58.8 | 117.7 | 28.4 | 13.7 | 28.4 | 4.15 | 53.2 | 26.6 | 53.2 |
| 12 | 115.3 | 57.7 | 115.3 | 28.4 | 13.7 | 28.4 | 4.07 | 53.2 | 26.6 | 53.2 |
| 11 | 113.0 | 56.5 | 113.0 | 28.4 | 13.7 | 28.4 | 3.98 | 53.2 | 26.6 | 53.2 |
| 10 | 110.7 | 55.4 | 110.7 | 28.4 | 13.7 | 28.4 | 3.90 | 53.3 | 26.6 | 53.3 |
| 9 | 106.6 | 53.3 | 106.6 | 28.4 | 13.7 | 28.4 | 3.75 | 53.3 | 26.6 | 53.3 |
| 8 | 102.8 | 51.4 | 102.8 | 28.4 | 13.7 | 28.4 | 3.62 | 53.3 | 26.7 | 53.3 |
| 7 | 99.1 | 49.6 | 99.1 | 28.4 | 13.7 | 28.4 | 3.49 | 53.3 | 26.7 | 53.3 |
| 6 | 95.8 | 47.9 | 95.8 | 28.4 | 13.7 | 28.4 | 3.37 | 53.3 | 26.7 | 53.3 |
| 5 | 92.7 | 46.4 | 92.7 | 28.4 | 13.7 | 28.4 | 3.26 | 53.3 | 26.6 | 53.3 |
| 4 | 89.9 | 45.0 | 89.9 | 28.4 | 13.7 | 28.4 | 3.17 | 53.2 | 26.6 | 53.2 |
| 3 | 87.3 | 43.7 | 87.3 | 28.4 | 13.7 | 28.4 | 3.08 | 53.2 | 26.6 | 53.2 |
| 2 | 84.9 | 42.5 | 84.9 | 28.3 | 13.7 | 28.3 | 3.00 | 53.1 | 26.6 | 53.1 |
| 1 | 82.8 | 41.4 | 82.8 | 28.3 | 13.6 | 28.3 | 2.92 | 53.1 | 26.5 | 53.1 |
| 0 | 80.8 | 40.4 | 80.8 | 28.3 | 13.6 | 28.3 | 2.86 | 53.0 | 26.5 | 53.0 |
| -1 | 79.0 | 39.5 | 79.0 | 28.2 | 13.6 | 28.2 | 2.80 | 52.9 | 26.5 | 52.9 |
| -2 | 77.4 | 38.7 | 77.4 | 28.2 | 13.6 | 28.2 | 2.74 | 52.9 | 26.4 | 52.9 |
| -3 | 76.0 | 38.0 | 76.0 | 28.2 | 13.6 | 28.2 | 2.70 | 52.8 | 26.4 | 52.8 |
| -4 | 74.8 | 37.4 | 74.8 | 28.1 | 13.6 | 28.1 | 2.66 | 52.7 | 26.4 | 52.7 |
| -5 | 73.7 | 36.8 | 73.7 | 28.1 | 13.5 | 28.1 | 2.62 | 52.6 | 26.3 | 52.6 |
| -6 | 72.8 | 36.4 | 72.8 | 28.1 | 13.5 | 28.1 | 2.59 | 52.6 | 26.3 | 52.6 |
| -7 | 72.0 | 36.0 | 72.0 | 28.0 | 13.5 | 28.0 | 2.57 | 52.5 | 26.3 | 52.5 |
| -8 | 71.4 | 35.7 | 71.4 | 28.0 | 13.5 | 28.0 | 2.55 | 52.5 | 26.2 | 52.5 |
| -9 | 70.9 | 35.5 | 70.9 | 28.0 | 13.5 | 28.0 | 2.53 | 52.4 | 26.2 | 52.4 |
| -10 | 70.6 | 35.3 | 70.6 | 28.0 | 13.5 | 28.0 | 2.52 | 52.4 | 26.2 | 52.4 |
| -11 | 68.9 | 34.5 | 68.9 | 27.9 | 13.5 | 27.9 | 2.47 | 52.2 | 26.1 | 52.2 |
| -12 | 67.3 | 33.6 | 67.3 | 27.8 | 13.4 | 27.8 | 2.42 | 52.1 | 26.0 | 52.1 |
| -13 | 65.6 | 32.8 | 65.6 | 27.8 | 13.4 | 27.8 | 2.36 | 51.9 | 25.9 | 51.9 |
| -14 | 64.0 | 32.0 | 64.0 | 27.7 | 13.3 | 27.7 | 2.31 | 51.7 | 25.8 | 51.7 |
| -15 | 62.4 | 31.2 | 62.4 | 27.6 | 13.3 | 27.6 | 2.26 | 51.5 | 25.7 | 51.5 |
| -16 | 60.8 | 30.4 | 60.8 | 27.4 | 13.2 | 27.4 | 2.21 | 51.2 | 25.6 | 51.2 |
| -17 | 59.2 | 29.6 | 59.2 | 27.3 | 13.2 | 27.3 | 2.17 | 51.0 | 25.5 | 51.0 |
| -18 | 57.7 | 28.8 | 57.7 | 27.2 | 13.1 | 27.2 | 2.12 | 50.7 | 25.4 | 50.7 |
| -19 | 56.2 | 28.1 | 56.2 | 27.1 | 13.0 | 27.1 | 2.07 | 50.4 | 25.2 | 50.4 |
| -20 | 54.7 | 27.3 | 54.7 | 26.9 | 13.0 | 26.9 | 2.03 | 50.1 | 25.1 | 50.1 |
| -21 | 53.2 | 26.6 | 53.2 | 26.8 | 12.9 | 26.8 | 1.99 | 49.8 | 24.9 | 49.8 |
| -22 | 51.7 | 25.9 | 51.7 | 26.6 | 12.8 | 26.6 | 1.94 | 49.4 | 24.7 | 49.4 |
| -23 | 50.3 | 25.2 | 50.3 | 26.4 | 12.7 | 26.4 | 1.90 | 49.1 | 24.5 | 49.1 |
| -24 | 48.9 | 24.4 | 48.9 | 26.3 | 12.7 | 26.3 | 1.86 | 48.7 | 24.3 | 48.7 |
| -25 | 47.5 | 23.7 | 47.5 | 26.1 | 12.6 | 26.1 | 1.82 | 48.2 | 24.1 | 48.2 |

* pozor: pracovný rozsah nie je zohľadnený v tabuľke

WAMAK AW 100 EVI HeavyDuty 2L1

| Th [°C] | | 55 °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 | 147.0 | 73.5 | 147.0 | 35.4 | 17.1 | 35.4 | 4.15 | 61.3 | 30.7 | 61.3 |
| 24 | 144.4 | 72.2 | 144.4 | 35.5 | 17.1 | 35.5 | 4.07 | 61.3 | 30.7 | 61.3 |
| 23 | 141.8 | 70.9 | 141.8 | 35.5 | 17.1 | 35.5 | 3.99 | 61.3 | 30.7 | 61.3 |
| 22 | 139.3 | 69.6 | 139.3 | 35.5 | 17.1 | 35.5 | 3.92 | 61.4 | 30.7 | 61.4 |
| 21 | 136.7 | 68.4 | 136.7 | 35.5 | 17.1 | 35.5 | 3.85 | 61.4 | 30.7 | 61.4 |
| 20 | 134.3 | 67.1 | 134.3 | 35.6 | 17.1 | 35.6 | 3.77 | 61.4 | 30.7 | 61.4 |
| 19 | 131.8 | 65.9 | 131.8 | 35.6 | 17.2 | 35.6 | 3.70 | 61.4 | 30.7 | 61.4 |
| 18 | 129.4 | 64.7 | 129.4 | 35.6 | 17.2 | 35.6 | 3.63 | 61.4 | 30.7 | 61.4 |
| 17 | 127.0 | 63.5 | 127.0 | 35.6 | 17.2 | 35.6 | 3.56 | 61.5 | 30.7 | 61.5 |
| 16 | 124.7 | 62.3 | 124.7 | 35.7 | 17.2 | 35.7 | 3.50 | 61.5 | 30.7 | 61.5 |
| 15 | 122.4 | 61.2 | 122.4 | 35.7 | 17.2 | 35.7 | 3.43 | 61.5 | 30.8 | 61.5 |
| 14 | 120.1 | 60.0 | 120.1 | 35.7 | 17.2 | 35.7 | 3.36 | 61.5 | 30.8 | 61.5 |
| 13 | 117.8 | 58.9 | 117.8 | 35.7 | 17.2 | 35.7 | 3.30 | 61.5 | 30.8 | 61.5 |
| 12 | 115.6 | 57.8 | 115.6 | 35.7 | 17.2 | 35.7 | 3.24 | 61.5 | 30.8 | 61.5 |
| 11 | 113.4 | 56.7 | 113.4 | 35.7 | 17.2 | 35.7 | 3.17 | 61.5 | 30.8 | 61.5 |
| 10 | 111.2 | 55.6 | 111.2 | 35.7 | 17.2 | 35.7 | 3.11 | 61.5 | 30.8 | 61.5 |
| 9 | 107.3 | 53.7 | 107.3 | 35.7 | 17.2 | 35.7 | 3.00 | 61.5 | 30.8 | 61.5 |
| 8 | 103.6 | 51.8 | 103.6 | 35.7 | 17.2 | 35.7 | 2.90 | 61.5 | 30.7 | 61.5 |
| 7 | 100.2 | 50.1 | 100.2 | 35.7 | 17.2 | 35.7 | 2.81 | 61.4 | 30.7 | 61.4 |
| 6 | 97.0 | 48.5 | 97.0 | 35.7 | 17.2 | 35.7 | 2.72 | 61.4 | 30.7 | 61.4 |
| 5 | 94.0 | 47.0 | 94.0 | 35.6 | 17.2 | 35.6 | 2.64 | 61.3 | 30.6 | 61.3 |
| 4 | 91.3 | 45.6 | 91.3 | 35.6 | 17.1 | 35.6 | 2.57 | 61.2 | 30.6 | 61.2 |
| 3 | 88.7 | 44.4 | 88.7 | 35.5 | 17.1 | 35.5 | 2.50 | 61.0 | 30.5 | 61.0 |
| 2 | 86.4 | 43.2 | 86.4 | 35.4 | 17.1 | 35.4 | 2.44 | 60.9 | 30.5 | 60.9 |
| 1 | 84.3 | 42.1 | 84.3 | 35.4 | 17.1 | 35.4 | 2.38 | 60.8 | 30.4 | 60.8 |
| 0 | 82.4 | 41.2 | 82.4 | 35.3 | 17.0 | 35.3 | 2.33 | 60.6 | 30.3 | 60.6 |
| -1 | 80.6 | 40.3 | 80.6 | 35.2 | 17.0 | 35.2 | 2.29 | 60.5 | 30.2 | 60.5 |
| -2 | 79.0 | 39.5 | 79.0 | 35.2 | 16.9 | 35.2 | 2.25 | 60.3 | 30.2 | 60.3 |
| -3 | 77.6 | 38.8 | 77.6 | 35.1 | 16.9 | 35.1 | 2.21 | 60.2 | 30.1 | 60.2 |
| -4 | 76.4 | 38.2 | 76.4 | 35.0 | 16.9 | 35.0 | 2.18 | 60.1 | 30.0 | 60.1 |
| -5 | 75.3 | 37.7 | 75.3 | 35.0 | 16.9 | 35.0 | 2.15 | 59.9 | 30.0 | 59.9 |
| -6 | 74.4 | 37.2 | 74.4 | 34.9 | 16.8 | 34.9 | 2.13 | 59.8 | 29.9 | 59.8 |
| -7 | 73.6 | 36.8 | 73.6 | 34.9 | 16.8 | 34.9 | 2.11 | 59.7 | 29.9 | 59.7 |
| -8 | 73.0 | 36.5 | 73.0 | 34.8 | 16.8 | 34.8 | 2.10 | 59.7 | 29.8 | 59.7 |
| -9 | 72.6 | 36.3 | 72.6 | 34.8 | 16.8 | 34.8 | 2.09 | 59.6 | 29.8 | 59.6 |
| -10 | 72.3 | 36.1 | 72.3 | 34.8 | 16.8 | 34.8 | 2.08 | 59.6 | 29.8 | 59.6 |
| -11 | 70.6 | 35.3 | 70.6 | 34.7 | 16.7 | 34.7 | 2.04 | 59.3 | 29.7 | 59.3 |
| -12 | 68.9 | 34.4 | 68.9 | 34.5 | 16.6 | 34.5 | 1.99 | 59.0 | 29.5 | 59.0 |
| -13 | 67.2 | 33.6 | 67.2 | 34.4 | 16.6 | 34.4 | 1.95 | 58.8 | 29.4 | 58.8 |
| -14 | 65.5 | 32.8 | 65.5 | 34.2 | 16.5 | 34.2 | 1.91 | 58.5 | 29.2 | 58.5 |
| -15 | 63.9 | 31.9 | 63.9 | 34.1 | 16.4 | 34.1 | 1.87 | 58.1 | 29.1 | 58.1 |
| -16 | 62.3 | 31.1 | 62.3 | 33.9 | 16.3 | 33.9 | 1.84 | 57.8 | 28.9 | 57.8 |
| -17 | 60.7 | 30.3 | 60.7 | 33.7 | 16.3 | 33.7 | 1.80 | 57.4 | 28.7 | 57.4 |
| -18 | 59.1 | 29.5 | 59.1 | 33.6 | 16.2 | 33.6 | 1.76 | 57.0 | 28.5 | 57.0 |
| -19 | 57.5 | 28.8 | 57.5 | 33.4 | 16.1 | 33.4 | 1.72 | 56.6 | 28.3 | 56.6 |
| -20 | 56.0 | 28.0 | 56.0 | 33.1 | 16.0 | 33.1 | 1.69 | 56.2 | 28.1 | 56.2 |
| -21 | 54.4 | 27.2 | 54.4 | 32.9 | 15.9 | 32.9 | 1.65 | 55.7 | 27.9 | 55.7 |
| -22 | 52.9 | 26.4 | 52.9 | 32.7 | 15.8 | 32.7 | 1.62 | 55.2 | 27.6 | 55.2 |
| -23 | 51.4 | 25.7 | 51.4 | 32.4 | 15.6 | 32.4 | 1.58 | 54.7 | 27.4 | 54.7 |
| -24 | 49.9 | 24.9 | 49.9 | 32.2 | 15.5 | 32.2 | 1.55 | 54.2 | 27.1 | 54.2 |
| -25 | 48.4 | 24.2 | 48.4 | 31.9 | 15.4 | 31.9 | 1.52 | 53.6 | 26.8 | 53.6 |

* pozor: pracovný rozsah nie je zohľadnený v tabuľke

WAMAK AW 100 EVI HeavyDuty 2L1

| Th [°C] | | T-Max @ 65 °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 | 145.9 | 73.0 | 145.9 | 45.2 | 21.8 | 45.2 | 3.23 | 72.3 | 36.1 | 72.3 |
| 24 | 143.5 | 71.8 | 143.5 | 45.2 | 21.8 | 45.2 | 3.17 | 72.3 | 36.2 | 72.3 |
| 23 | 141.1 | 70.5 | 141.1 | 45.2 | 21.8 | 45.2 | 3.12 | 72.4 | 36.2 | 72.4 |
| 22 | 138.7 | 69.4 | 138.7 | 45.3 | 21.8 | 45.3 | 3.06 | 72.4 | 36.2 | 72.4 |
| 21 | 136.4 | 68.2 | 136.4 | 45.3 | 21.8 | 45.3 | 3.01 | 72.5 | 36.2 | 72.5 |
| 20 | 134.0 | 67.0 | 134.0 | 45.3 | 21.8 | 45.3 | 2.96 | 72.5 | 36.3 | 72.5 |
| 19 | 131.7 | 65.9 | 131.7 | 45.3 | 21.8 | 45.3 | 2.91 | 72.6 | 36.3 | 72.6 |
| 18 | 129.5 | 64.7 | 129.5 | 45.3 | 21.9 | 45.3 | 2.86 | 72.6 | 36.3 | 72.6 |
| 17 | 127.2 | 63.6 | 127.2 | 45.4 | 21.9 | 45.4 | 2.81 | 72.7 | 36.3 | 72.7 |
| 16 | 125.0 | 62.5 | 125.0 | 45.4 | 21.9 | 45.4 | 2.76 | 72.7 | 36.3 | 72.7 |
| 15 | 122.8 | 61.4 | 122.8 | 45.4 | 21.9 | 45.4 | 2.71 | 72.7 | 36.4 | 72.7 |
| 14 | 120.7 | 60.3 | 120.7 | 45.4 | 21.9 | 45.4 | 2.66 | 72.7 | 36.4 | 72.7 |
| 13 | 118.5 | 59.3 | 118.5 | 45.4 | 21.9 | 45.4 | 2.61 | 72.8 | 36.4 | 72.8 |
| 12 | 116.4 | 58.2 | 116.4 | 45.4 | 21.9 | 45.4 | 2.57 | 72.8 | 36.4 | 72.8 |
| 11 | 114.3 | 57.2 | 114.3 | 45.3 | 21.9 | 45.3 | 2.52 | 72.8 | 36.4 | 72.8 |
| 10 | 112.3 | 56.1 | 112.3 | 45.3 | 21.8 | 45.3 | 2.48 | 72.8 | 36.4 | 72.8 |
| 9 | 108.5 | 54.2 | 108.5 | 45.3 | 21.8 | 45.3 | 2.40 | 72.7 | 36.4 | 72.7 |
| 8 | 105.0 | 52.5 | 105.0 | 45.2 | 21.8 | 45.2 | 2.32 | 72.7 | 36.3 | 72.7 |
| 7 | 101.6 | 50.8 | 101.6 | 45.1 | 21.8 | 45.1 | 2.25 | 72.6 | 36.3 | 72.6 |
| 6 | 98.5 | 49.3 | 98.5 | 45.1 | 21.7 | 45.1 | 2.19 | 72.5 | 36.2 | 72.5 |
| 5 | 95.6 | 47.8 | 95.6 | 45.0 | 21.7 | 45.0 | 2.13 | 72.3 | 36.2 | 72.3 |
| 4 | 92.9 | 46.5 | 92.9 | 44.8 | 21.6 | 44.8 | 2.07 | 72.1 | 36.1 | 72.1 |
| 3 | 90.5 | 45.2 | 90.5 | 44.7 | 21.6 | 44.7 | 2.02 | 72.0 | 36.0 | 72.0 |
| 2 | 88.2 | 44.1 | 88.2 | 44.6 | 21.5 | 44.6 | 1.98 | 71.8 | 35.9 | 71.8 |
| 1 | 86.1 | 43.0 | 86.1 | 44.5 | 21.4 | 44.5 | 1.94 | 71.6 | 35.8 | 71.6 |
| 0 | 84.2 | 42.1 | 84.2 | 44.4 | 21.4 | 44.4 | 1.90 | 71.4 | 35.7 | 71.4 |
| -1 | 82.4 | 41.2 | 82.4 | 44.2 | 21.3 | 44.2 | 1.86 | 71.2 | 35.6 | 71.2 |
| -2 | 80.9 | 40.4 | 80.9 | 44.1 | 21.3 | 44.1 | 1.83 | 71.0 | 35.5 | 71.0 |
| -3 | 79.5 | 39.7 | 79.5 | 44.0 | 21.2 | 44.0 | 1.81 | 70.8 | 35.4 | 70.8 |
| -4 | 78.2 | 39.1 | 78.2 | 43.9 | 21.2 | 43.9 | 1.78 | 70.6 | 35.3 | 70.6 |
| -5 | 77.1 | 38.6 | 77.1 | 43.8 | 21.1 | 43.8 | 1.76 | 70.4 | 35.2 | 70.4 |
| -6 | 76.2 | 38.1 | 76.2 | 43.7 | 21.1 | 43.7 | 1.74 | 70.3 | 35.1 | 70.3 |
| -7 | 75.4 | 37.7 | 75.4 | 43.6 | 21.0 | 43.6 | 1.73 | 70.2 | 35.1 | 70.2 |
| -8 | 74.8 | 37.4 | 74.8 | 43.6 | 21.0 | 43.6 | 1.72 | 70.1 | 35.0 | 70.1 |
| -9 | 74.4 | 37.2 | 74.4 | 43.5 | 21.0 | 43.5 | 1.71 | 70.0 | 35.0 | 70.0 |
| -10 | 74.1 | 37.0 | 74.1 | 43.5 | 21.0 | 43.5 | 1.70 | 69.9 | 35.0 | 69.9 |
| -11 | 72.3 | 36.2 | 72.3 | 43.3 | 20.9 | 43.3 | 1.67 | 69.6 | 34.8 | 69.6 |
| -12 | 70.6 | 35.3 | 70.6 | 43.1 | 20.8 | 43.1 | 1.64 | 69.2 | 34.6 | 69.2 |
| -13 | 68.9 | 34.4 | 68.9 | 42.9 | 20.7 | 42.9 | 1.61 | 68.9 | 34.4 | 68.9 |
| -14 | 67.2 | 33.6 | 67.2 | 42.7 | 20.6 | 42.7 | 1.57 | 68.5 | 34.2 | 68.5 |
| -15 | 65.5 | 32.8 | 65.5 | 42.5 | 20.5 | 42.5 | 1.54 | 68.1 | 34.0 | 68.1 |
| -16 | | | | | | | | | | |
| -17 | | | | | | | | | | |
| -18 | | | | | | | | | | |
| -19 | | | | | | | | | | |
| -20 | | | | | | | | | | |
| -21 | | | | | | | | | | |
| -22 | | | | | | | | | | |
| -23 | | | | | | | | | | |
| -24 | | | | | | | | | | |
| -25 | | | | | | | | | | |

* pozor: pracovný rozsah nie je zohľadnený v tabuľke

WAMAK AW 100 EVI HeavyDuty 2L1

| 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 | 70.4 | 70.4 | 70.4 | 30.4 | 29.3 | 30.4 | 2.32 | 55.5 | 55.5 | 55.5 |
| 39 | 70.9 | 70.9 | 70.9 | 29.7 | 28.7 | 29.7 | 2.38 | 54.7 | 54.7 | 54.7 |
| 38 | 71.4 | 71.4 | 71.4 | 29.1 | 28.0 | 29.1 | 2.46 | 54.0 | 54.0 | 54.0 |
| 37 | 71.9 | 71.9 | 71.9 | 28.4 | 27.4 | 28.4 | 2.53 | 53.3 | 53.3 | 53.3 |
| 36 | 72.3 | 72.3 | 72.3 | 27.8 | 26.8 | 27.8 | 2.60 | 52.6 | 52.6 | 52.6 |
| 35 | 72.8 | 72.8 | 72.8 | 27.2 | 26.2 | 27.2 | 2.68 | 52.0 | 52.0 | 52.0 |
| 34 | 73.2 | 73.2 | 73.2 | 26.6 | 25.6 | 26.6 | 2.75 | 51.3 | 51.3 | 51.3 |
| 33 | 73.6 | 73.6 | 73.6 | 26.0 | 25.1 | 26.0 | 2.83 | 50.7 | 50.7 | 50.7 |
| 32 | 74.0 | 74.0 | 74.0 | 25.4 | 24.5 | 25.4 | 2.91 | 50.1 | 50.1 | 50.1 |
| 31 | 74.4 | 74.4 | 74.4 | 24.9 | 24.0 | 24.9 | 2.99 | 49.5 | 49.5 | 49.5 |
| 30 | 74.8 | 74.8 | 74.8 | 24.3 | 23.5 | 24.3 | 3.07 | 48.9 | 48.9 | 48.9 |
| 29 | 75.1 | 75.1 | 75.1 | 23.8 | 22.9 | 23.8 | 3.16 | 48.3 | 48.3 | 48.3 |
| 28 | 75.5 | 75.5 | 75.5 | 23.3 | 22.4 | 23.3 | 3.24 | 47.7 | 47.7 | 47.7 |
| 27 | 75.8 | 75.8 | 75.8 | 22.8 | 21.9 | 22.8 | 3.33 | 47.2 | 47.2 | 47.2 |
| 26 | 76.2 | 76.2 | 76.2 | 22.3 | 21.5 | 22.3 | 3.42 | 46.7 | 46.7 | 46.7 |
| 25 | 76.5 | 76.5 | 76.5 | 21.8 | 21.0 | 21.8 | 3.51 | 46.1 | 46.1 | 46.1 |
| 24 | 76.8 | 76.8 | 76.8 | 21.3 | 20.5 | 21.3 | 3.60 | 45.6 | 45.6 | 45.6 |
| 23 | 77.1 | 77.1 | 77.1 | 20.8 | 20.1 | 20.8 | 3.70 | 45.1 | 45.1 | 45.1 |
| 22 | 77.3 | 77.3 | 77.3 | 20.4 | 19.6 | 20.4 | 3.80 | 44.6 | 44.6 | 44.6 |
| 21 | 77.6 | 77.6 | 77.6 | 19.9 | 19.2 | 19.9 | 3.90 | 44.1 | 44.1 | 44.1 |
| 20 | 77.9 | 77.9 | 77.9 | 19.5 | 18.8 | 19.5 | 4.00 | 43.6 | 43.6 | 43.6 |
| 19 | 78.1 | 78.1 | 78.1 | 19.0 | 18.3 | 19.0 | 4.11 | 43.1 | 43.1 | 43.1 |
| 18 | 78.3 | 78.3 | 78.3 | 18.6 | 17.9 | 18.6 | 4.22 | 42.5 | 42.5 | 42.5 |
| 17 | 78.6 | 78.6 | 78.6 | 18.1 | 17.5 | 18.1 | 4.33 | 42.0 | 42.0 | 42.0 |

| 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 | 93.9 | 93.9 | 93.9 | 30.4 | 29.3 | 30.4 | 3.09 | 55.4 | 55.4 | 55.4 |
| 39 | 94.5 | 94.5 | 94.5 | 29.7 | 28.7 | 29.7 | 3.18 | 54.7 | 54.7 | 54.7 |
| 38 | 95.1 | 95.1 | 95.1 | 29.1 | 28.0 | 29.1 | 3.27 | 53.9 | 53.9 | 53.9 |
| 37 | 95.7 | 95.7 | 95.7 | 28.4 | 27.4 | 28.4 | 3.37 | 53.2 | 53.2 | 53.2 |
| 36 | 96.3 | 96.3 | 96.3 | 27.8 | 26.8 | 27.8 | 3.46 | 52.4 | 52.4 | 52.4 |
| 35 | 96.9 | 96.9 | 96.9 | 27.2 | 26.2 | 27.2 | 3.56 | 51.7 | 51.7 | 51.7 |
| 34 | 97.4 | 97.4 | 97.4 | 26.6 | 25.6 | 26.6 | 3.66 | 51.1 | 51.1 | 51.1 |
| 33 | 97.9 | 97.9 | 97.9 | 26.0 | 25.1 | 26.0 | 3.77 | 50.4 | 50.4 | 50.4 |
| 32 | 98.5 | 98.5 | 98.5 | 25.4 | 24.5 | 25.4 | 3.87 | 49.7 | 49.7 | 49.7 |
| 31 | 99.0 | 99.0 | 99.0 | 24.9 | 24.0 | 24.9 | 3.98 | 49.1 | 49.1 | 49.1 |
| 30 | 99.5 | 99.5 | 99.5 | 24.3 | 23.5 | 24.3 | 4.09 | 48.5 | 48.5 | 48.5 |
| 29 | 100.0 | 100.0 | 100.0 | 23.8 | 22.9 | 23.8 | 4.20 | 47.9 | 47.9 | 47.9 |
| 28 | 100.5 | 100.5 | 100.5 | 23.3 | 22.4 | 23.3 | 4.32 | 47.2 | 47.2 | 47.2 |
| 27 | 100.9 | 100.9 | 100.9 | 22.8 | 21.9 | 22.8 | 4.43 | 46.6 | 46.6 | 46.6 |
| 26 | 101.4 | 101.4 | 101.4 | 22.3 | 21.5 | 22.3 | 4.55 | 46.1 | 46.1 | 46.1 |
| 25 | 101.8 | 101.8 | 101.8 | 21.8 | 21.0 | 21.8 | 4.67 | 45.5 | 45.5 | 45.5 |
| 24 | 102.2 | 102.2 | 102.2 | 21.3 | 20.5 | 21.3 | 4.80 | 44.9 | 44.9 | 44.9 |
| 23 | 102.7 | 102.7 | 102.7 | 20.8 | 20.1 | 20.8 | 4.93 | 44.3 | 44.3 | 44.3 |
| 22 | 103.1 | 103.1 | 103.1 | 20.4 | 19.6 | 20.4 | 5.06 | 43.8 | 43.8 | 43.8 |
| 21 | 103.4 | 103.4 | 103.4 | 19.9 | 19.2 | 19.9 | 5.20 | 43.2 | 43.2 | 43.2 |
| 20 | 103.8 | 103.8 | 103.8 | 19.5 | 18.8 | 19.5 | 5.34 | 42.6 | 42.6 | 42.6 |
| 19 | 104.2 | 104.2 | 104.2 | 19.0 | 18.3 | 19.0 | 5.48 | 42.1 | 42.1 | 42.1 |
| 18 | 104.6 | 104.6 | 104.6 | 18.6 | 17.9 | 18.6 | 5.63 | 41.5 | 41.5 | 41.5 |
| 17 | 104.9 | 104.9 | 104.9 | 18.1 | 17.5 | 18.1 | 5.78 | 40.9 | 40.9 | 40.9 |

* 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: Maxmálny 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

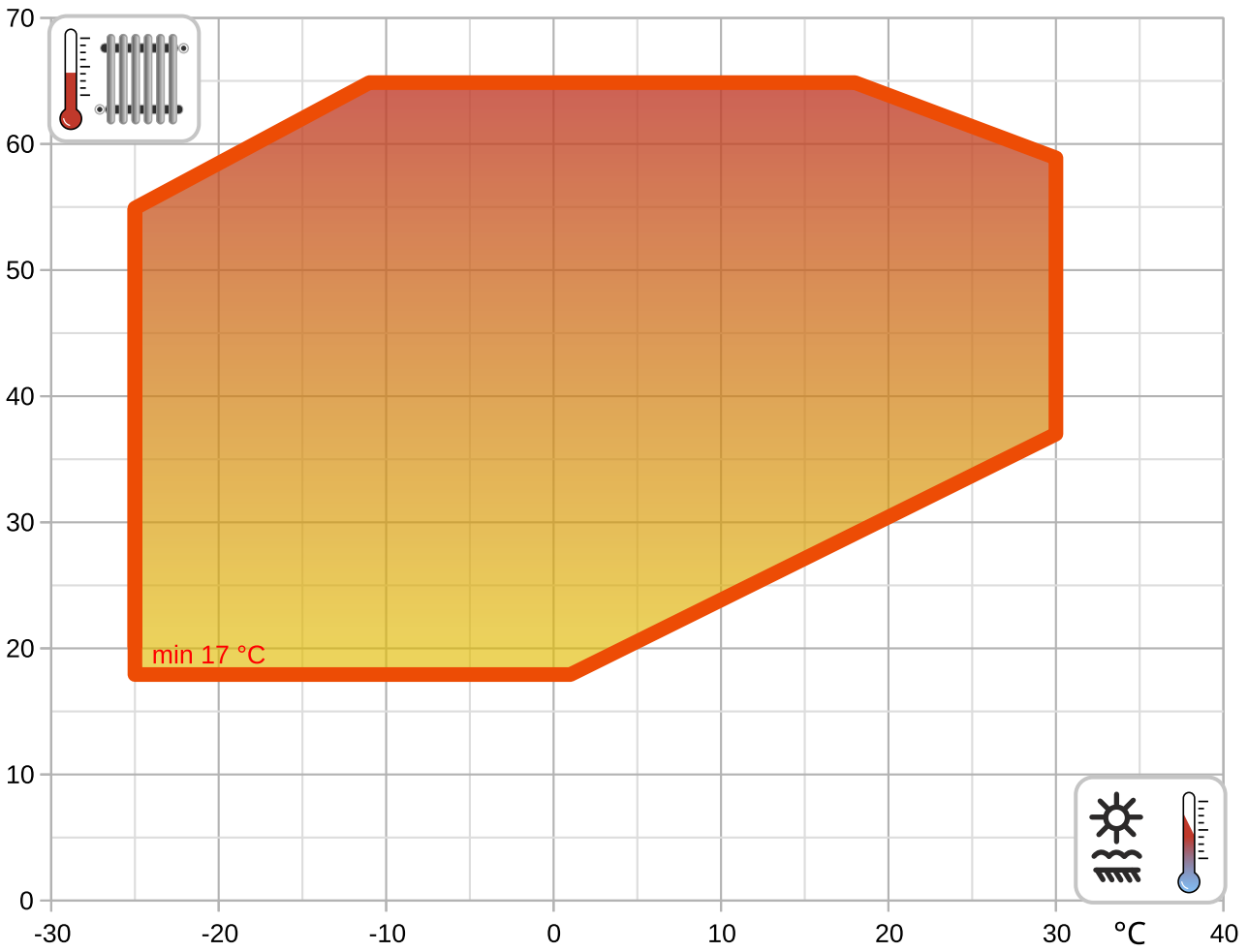
Qc max: Chladiaci výkon / odobrané teplo pri maximálnom tepelnom výkone

I nom: Prúd pri nominálnom tepelnom výkone

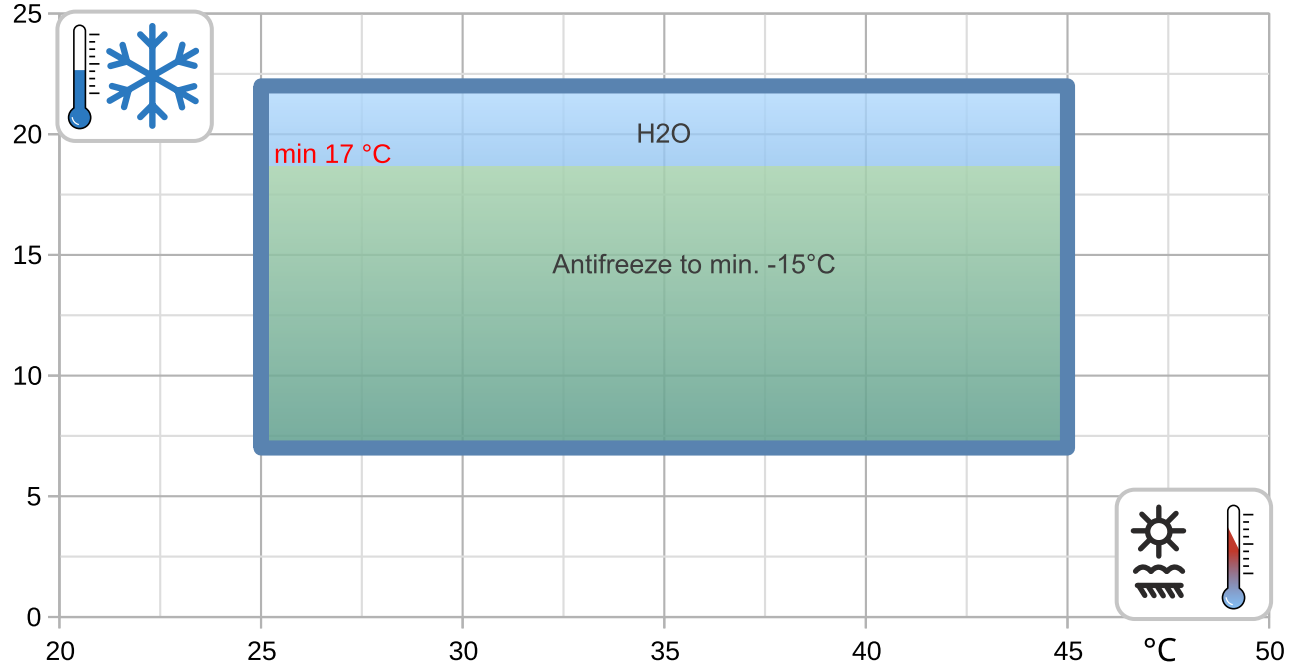
EER: Koeficient účinnosti pri nominálnom chladiacom výkone

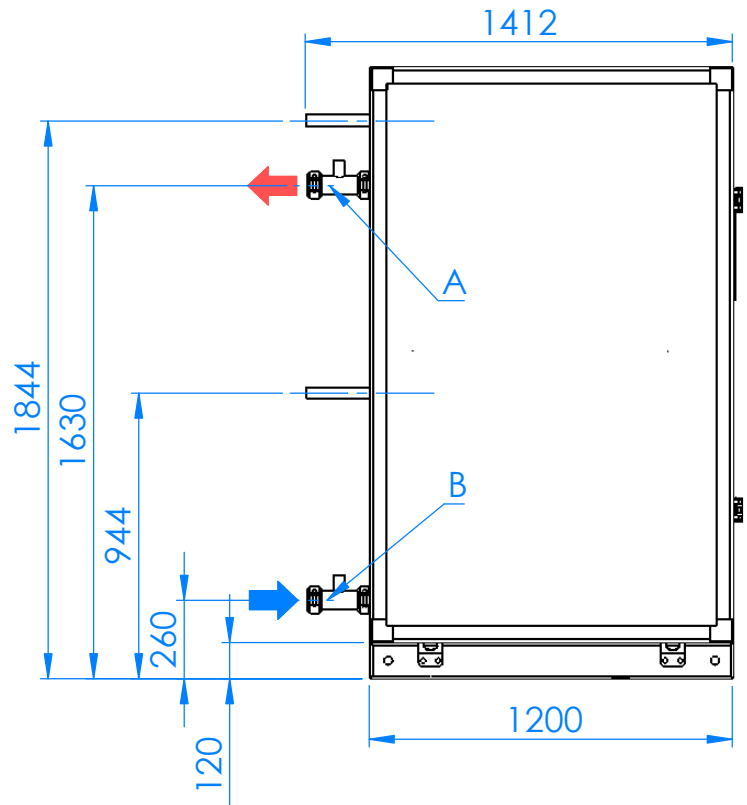
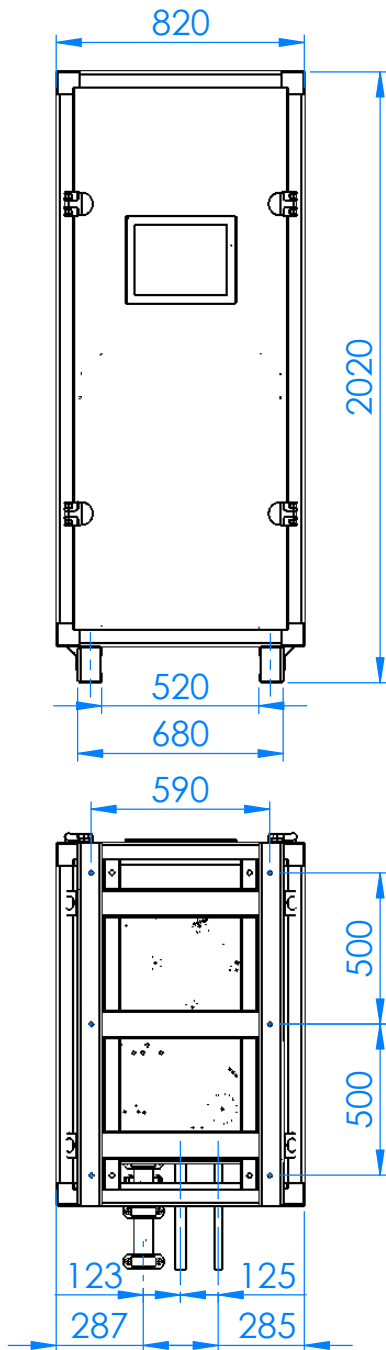
Prevádzkové limity

°C



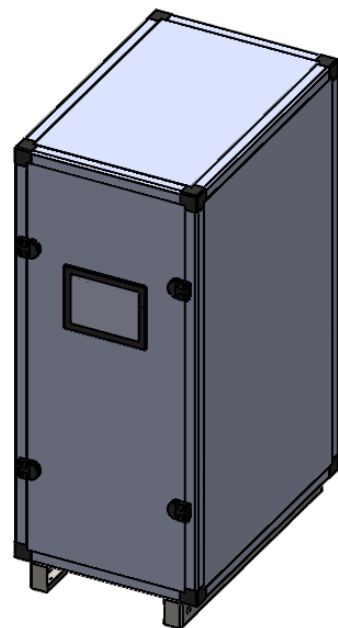
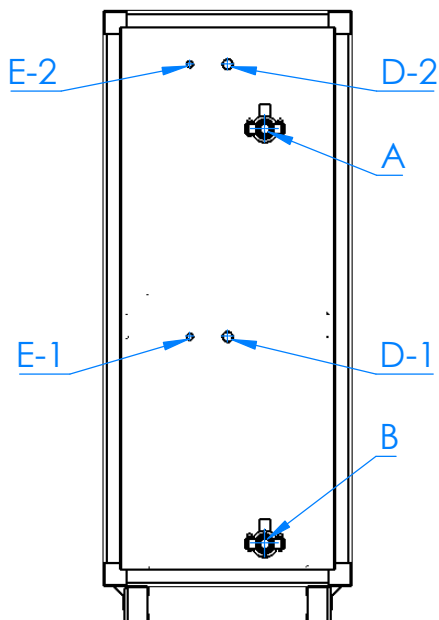
°C

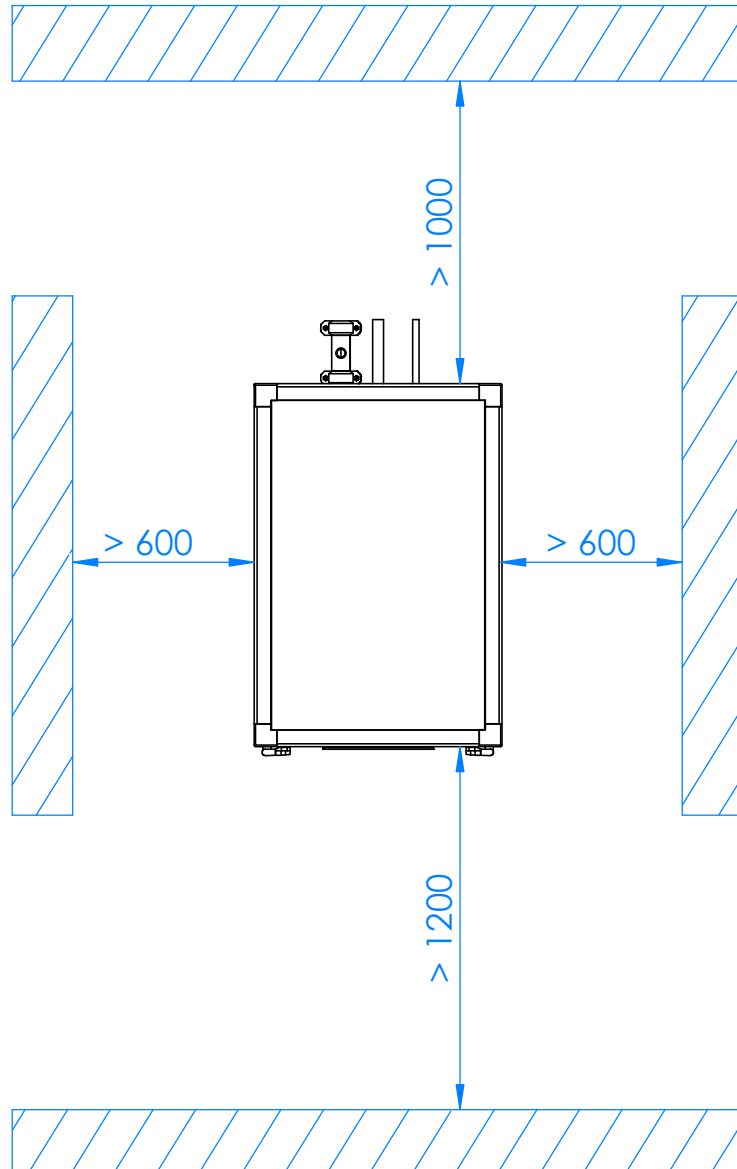


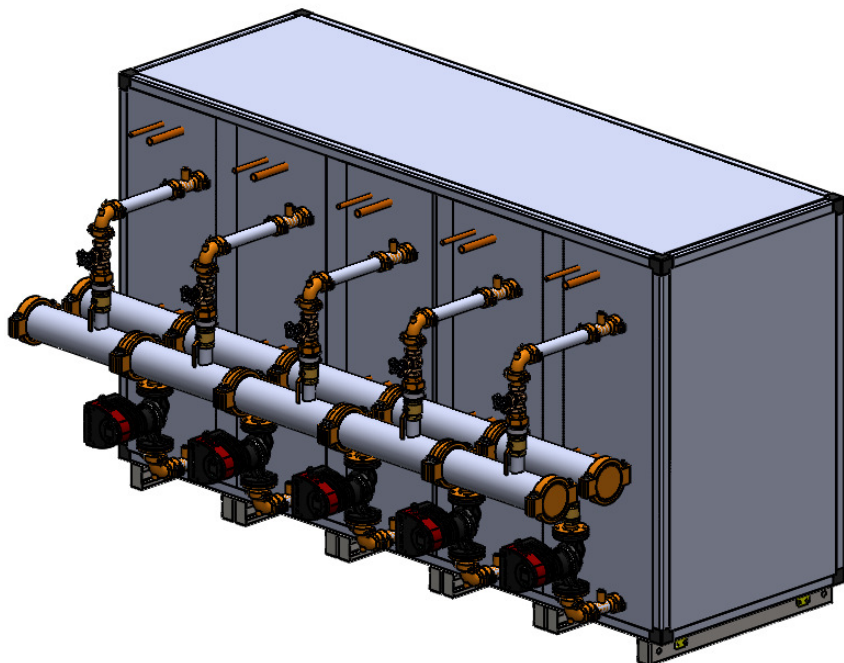
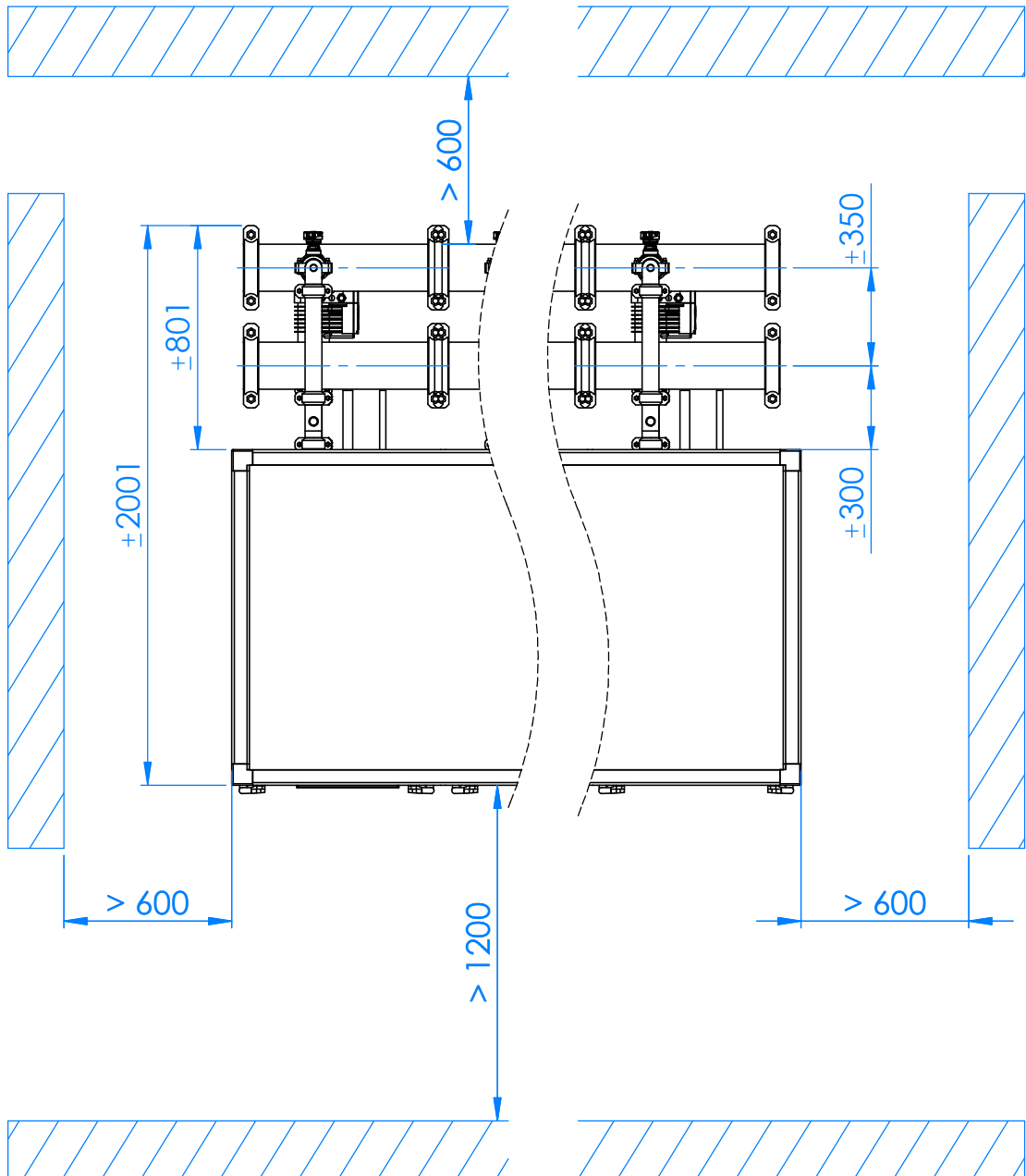


D (1,2) - SPLIT - FRIGO GAS (Modul 1 - 2)

E (1,2) - SPLIT - FRIGO LIQUID (Modul 1-2)







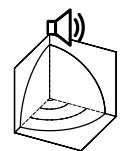
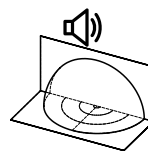
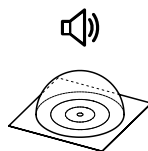
WAMAK AW 100 EVI HeavyDuty 2L1 - Variant Split jednotky: VOV900X2-FRAME



| Označenie krytovania: VOV900X2-FRAME | | | Výparník | |
|--------------------------------------|------------|------|--|-----------------------|
| Kód výrobku | WAVV2X90 | | Typ | Cu-coil /Al-fin " |
| Základné rozmery | Výška [mm] | 1400 | Pripojovacia dimenzia | 2 x (7/8" - 1.3/8") " |
| | Šírka [mm] | 1500 | Teplonosné médium | Vzduch |
| | Dĺžka [mm] | 2300 | Objemový prietok - Vzduch [m3/h] | 15075 ~ 30150 |
| Váha zariadenia [kg] | 430 | | Vnútorná tlaková strata - Vzduch [kPa] | 2 x 0.061 |
| Farba krytovania | Nerez | | Teplotný spád - Vzduch | 7 K |
| IP trieda krytovania | IP44 | | Expanzný ventil | EEV |
| Ventilátor | 800 mm | | | |
| Počet ventilátorov | 2 | | Pozícia ventilátora | Vertikálna os |
| Typ motora ventilátora | EC | | Typ ventilátora | Axial |
| Nominálny prúd ventilátora [A] | 1.35 | | Napájanie ventilátora [V/Hz] | 3~ 400/50 |
| Minimálny príkon ventilátora [Watt] | 81 | | Maximálny príkon ventilátora [Watt] | 802 |

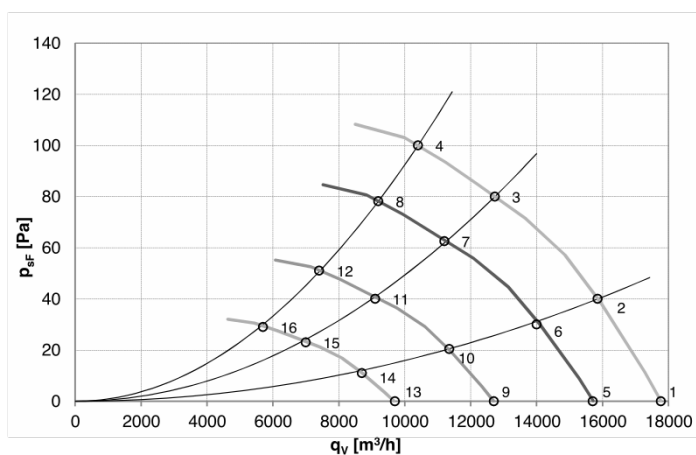
Zvuk - výkon Lw

72.8 dB(A)

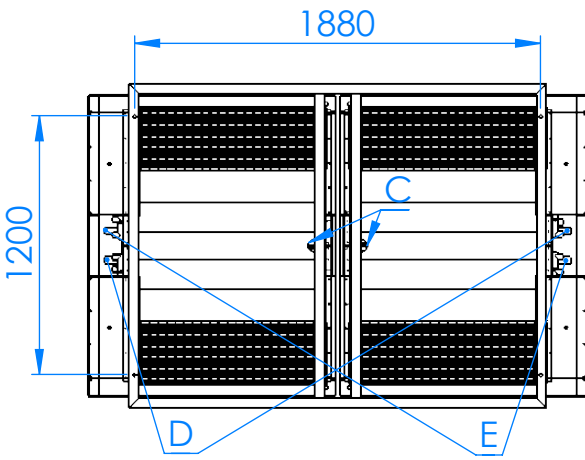
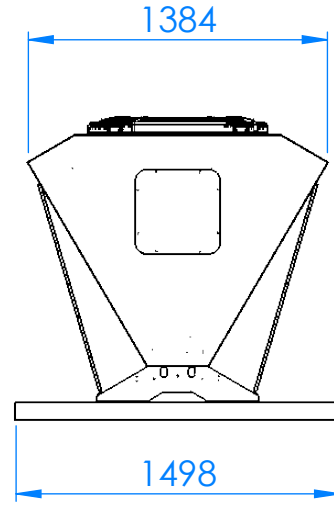
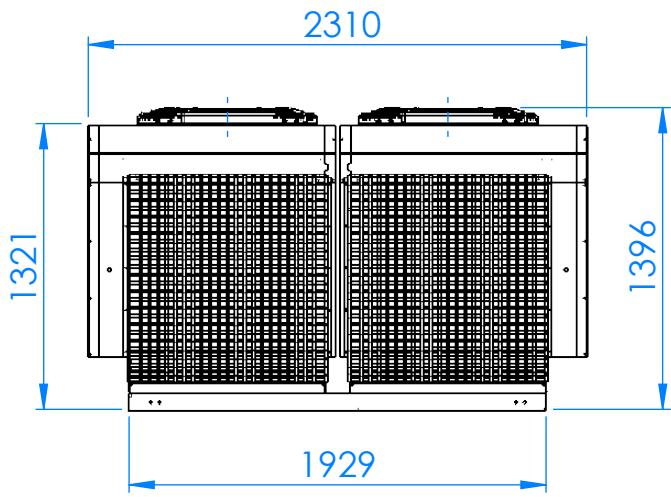


| Odstup [m] | 1 | 5 | 10 | 15 | 1 | 5 | 10 | 15 | 1 | 5 | 10 | 15 |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Zvuk - tlak Lp [dB(A)] | 67.8 | 53.8 | 47.8 | 44.3 | 70.8 | 56.8 | 50.8 | 47.3 | 64.8 | 50.8 | 44.8 | 41.3 |

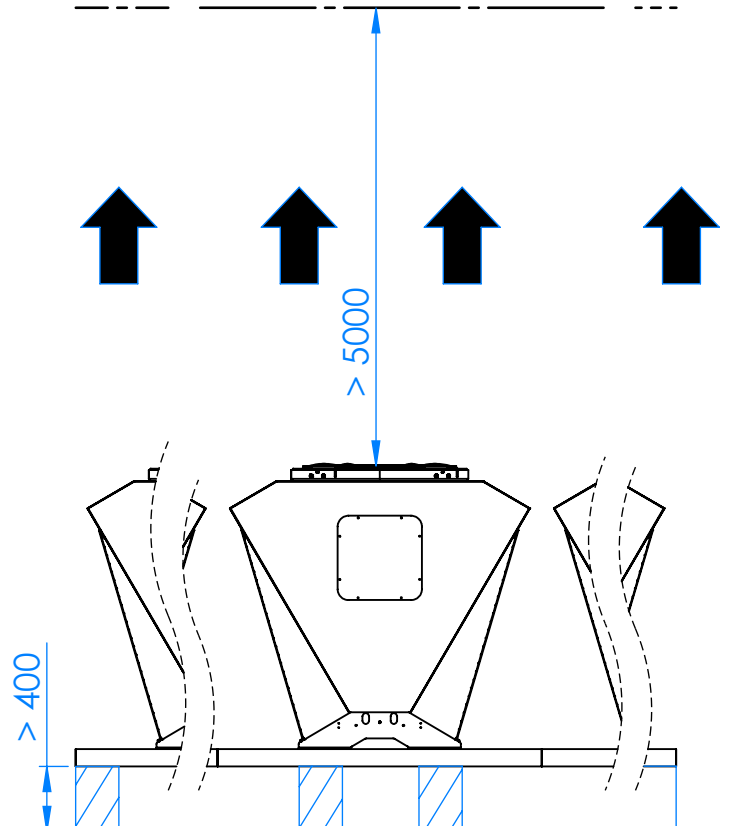
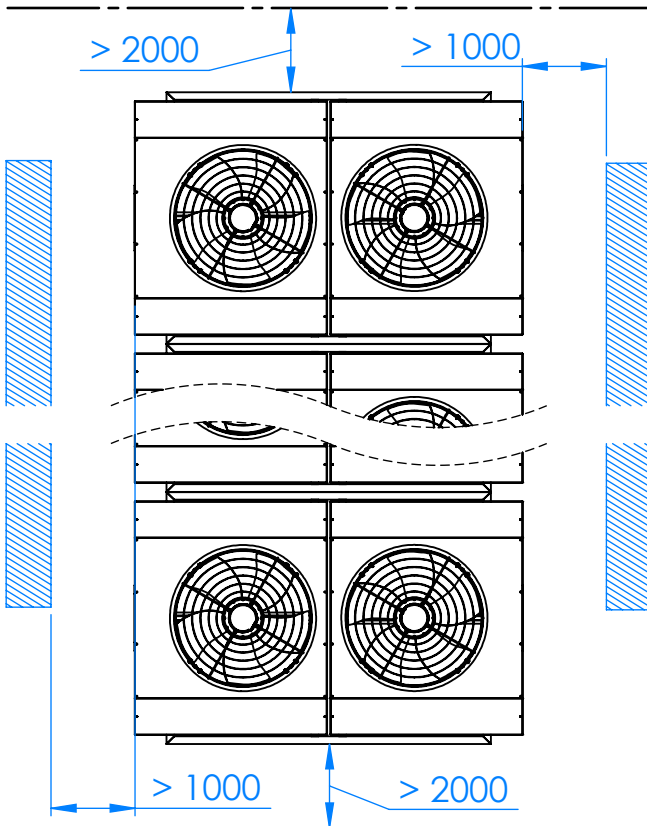
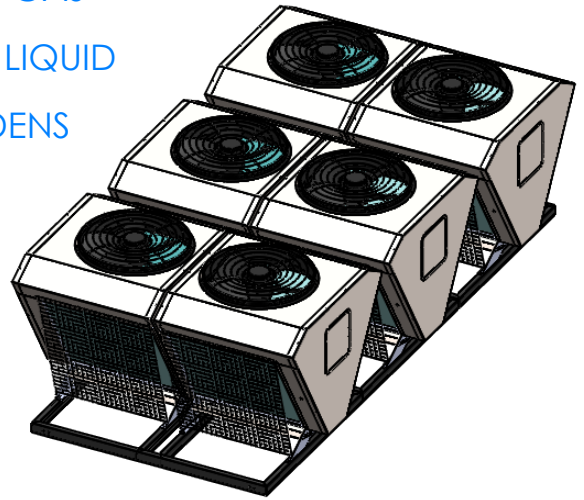
EC Fan 800mm



| | U [V] | f [Hz] | n [RPM] | qv [m³/h] | PstF [Pa] | Pe [W] | I [A] | LwA out [dB (A)] | Ta max [°C] |
|----|-------|--------|---------|-----------|-----------|--------|-------|------------------|-------------|
| 1 | 400 | 50 | 735 | 17770 | 0 | 503 | 0,85 | 70 | 60 |
| 2 | 400 | 50 | 735 | 15850 | 40 | 612 | 1,02 | 66 | 60 |
| 3 | 400 | 50 | 735 | 12730 | 80 | 735 | 1,18 | 65 | 60 |
| 4 | 400 | 50 | 735 | 10400 | 100 | 802 | 1,36 | 68 | 60 |
| 5 | 400 | 50 | 650 | 15700 | 0 | 348 | 0,68 | 67 | 60 |
| 6 | 400 | 50 | 650 | 14000 | 30 | 421 | 0,80 | 63 | 60 |
| 7 | 400 | 50 | 650 | 11200 | 63 | 510 | 0,92 | 62 | 60 |
| 8 | 400 | 50 | 650 | 9200 | 78 | 554 | 0,93 | 65 | 60 |
| 9 | 400 | 50 | 525 | 12700 | 0 | 183 | 0,38 | 63 | 60 |
| 10 | 400 | 50 | 525 | 11350 | 20 | 225 | 0,35 | 59 | 60 |
| 11 | 400 | 50 | 525 | 9100 | 40 | 265 | 0,53 | 58 | 60 |
| 12 | 400 | 50 | 525 | 7400 | 51 | 292 | 0,57 | 61 | 60 |
| 13 | 400 | 50 | 400 | 9700 | 0 | 81 | 0,21 | 57 | 60 |
| 14 | 400 | 50 | 400 | 8700 | 11 | 97 | 0,24 | 53 | 60 |
| 15 | 400 | 50 | 400 | 7000 | 23 | 117 | 0,27 | 52 | 60 |
| 16 | 400 | 50 | 400 | 5700 | 29 | 128 | 0,28 | 55 | 60 |



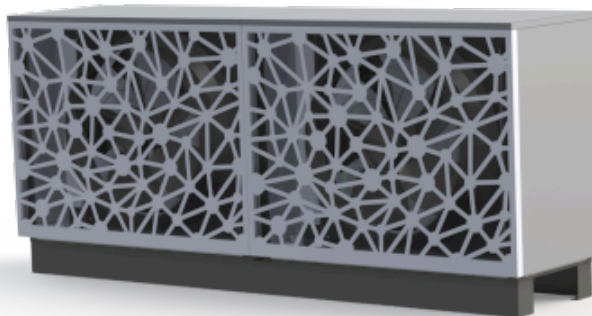
D - FRIGO GAS
E - FRIGO LIQUID
C - CONDENS



WAMAK AW 100 EVI HeavyDuty 2L1 - Variant Split jednotky: VOII-1200-2LOW

Potrebný počet jednotiek

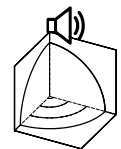
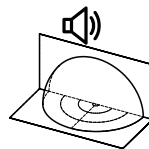
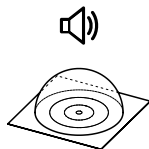
2



| Označenie krytovania: VOII-1200-2LOW | | | Výparník | |
|--------------------------------------|------------|------|--|-----------------------|
| Kód výrobku | WAVII12L | | Typ | Cu-coil /Al-fin " |
| Základné rozmery | Výška [mm] | 1240 | Pripojovacia dimenzia | 2 x (7/8" - 1.3/8") " |
| | Šírka [mm] | 2850 | Teplonosné médium | Vzduch |
| | Dĺžka [mm] | 710 | Objemový prietok - Vzduch [m3/h] | 15075 ~ 30150 |
| Váha zariadenia [kg] | 300 | | Vnútorná tlaková strata - Vzduch [kPa] | 2 x 0.061 |
| Farba krytovania | Sivá | | Teplotný spád - Vzduch | 7 K |
| IP trieda krytovania | IP44 | | Expanzný ventil | EEV |
| Ventilátor | 800 mm | | | |
| Počet ventilátorov | 2 | | Pozícia ventilátora | Horizontálna os |
| Typ motora ventilátora | EC | | Typ ventilátora | Axial |
| Nominálny prúd ventilátora [A] | 1.35 | | Napájanie ventilátora [V/Hz] | 3~ 400/50 |
| Minimálny príkon ventilátora [Watt] | 81 | | Maximálny príkon ventilátora [Watt] | 802 |

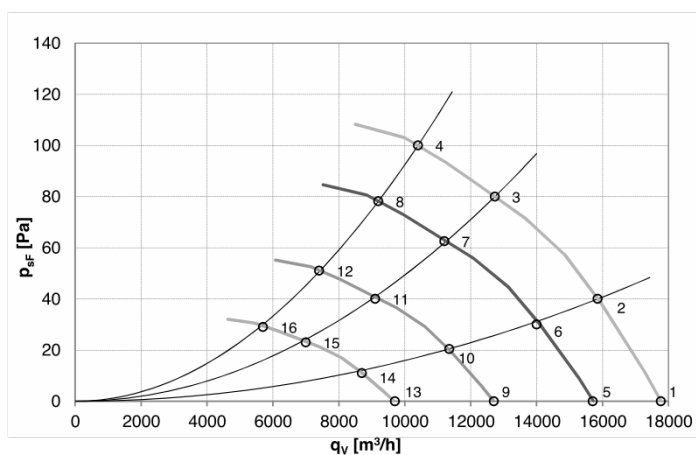
Zvuk - výkon Lw

66.3 dB(A)



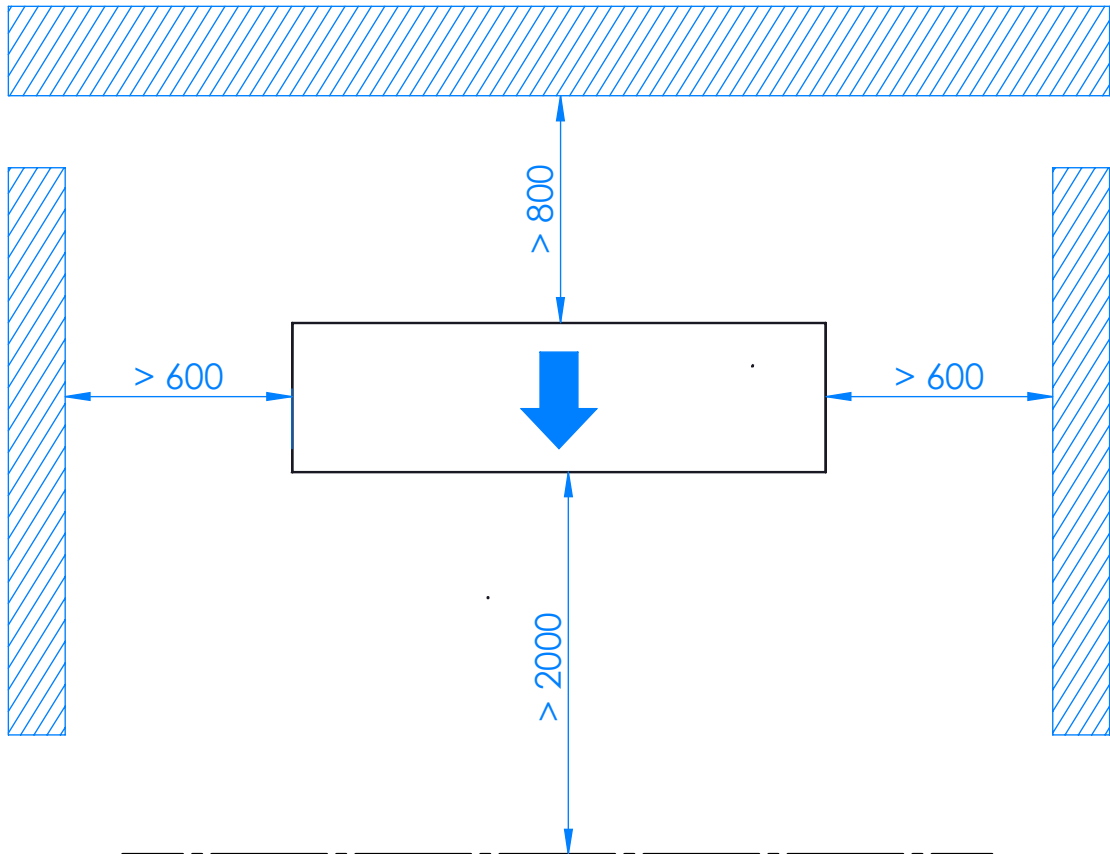
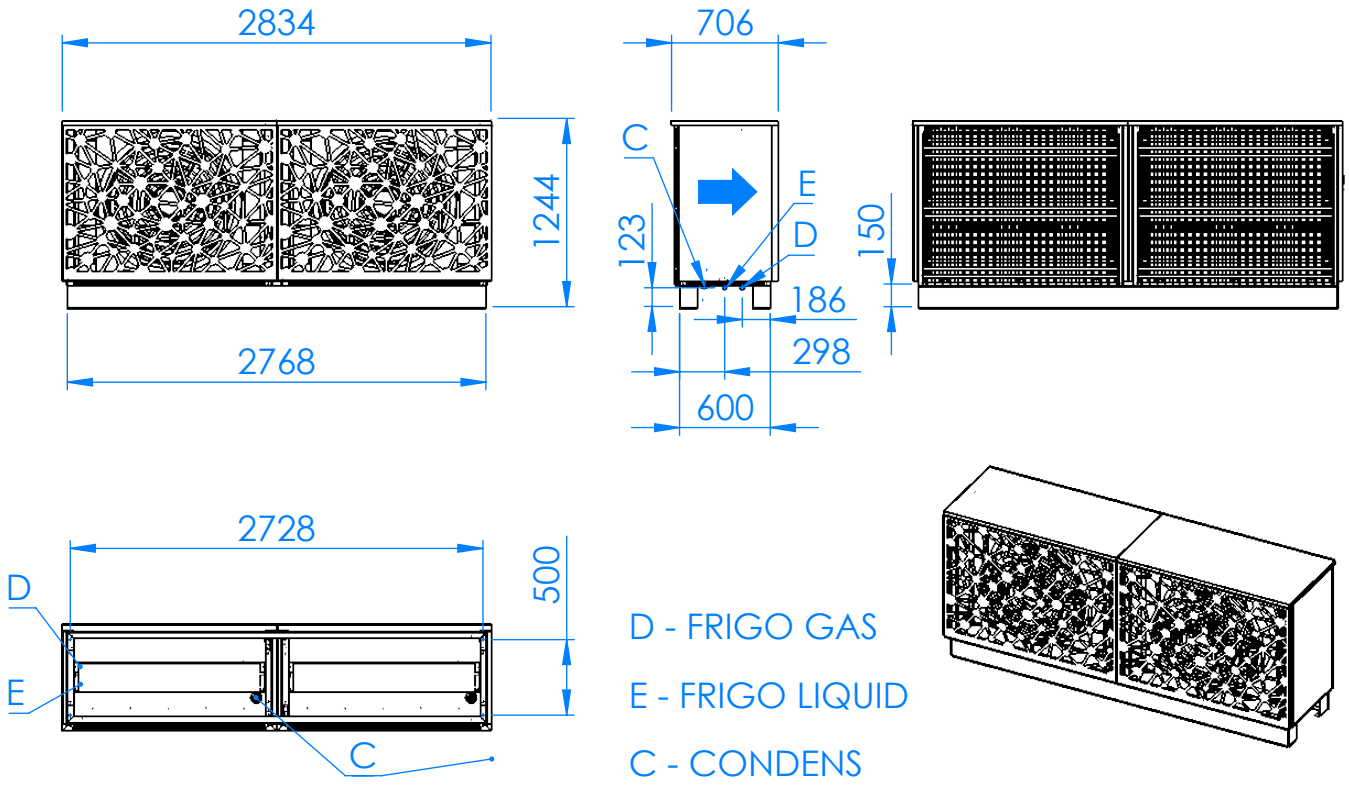
| Odstup [m] | 1 | 5 | 10 | 15 | 1 | 5 | 10 | 15 | 1 | 5 | 10 | 15 |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Zvuk - tlak Lp [dB(A)] | 61.3 | 47.3 | 41.3 | 37.8 | 64.3 | 50.3 | 44.3 | 40.8 | 58.3 | 44.3 | 38.3 | 34.8 |

EC Fan 800mm



| | U | f | n | qv | P _{sF} | P _e | I | L _{WA out} | T _{a max} |
|----|-----|------|-------|--------|-----------------|----------------|------|---------------------|--------------------|
| | [V] | [Hz] | [RPM] | [m³/h] | [Pa] | [W] | [A] | [dB (A)] | [°C] |
| 1 | 400 | 50 | 735 | 17770 | 0 | 503 | 0,85 | 70 | 60 |
| 2 | 400 | 50 | 735 | 15850 | 40 | 612 | 1,02 | 66 | 60 |
| 3 | 400 | 50 | 735 | 12730 | 80 | 735 | 1,18 | 65 | 60 |
| 4 | 400 | 50 | 735 | 10400 | 100 | 802 | 1,36 | 68 | 60 |
| 5 | 400 | 50 | 650 | 15700 | 0 | 348 | 0,68 | 67 | 60 |
| 6 | 400 | 50 | 650 | 14000 | 30 | 421 | 0,80 | 63 | 60 |
| 7 | 400 | 50 | 650 | 11200 | 63 | 510 | 0,92 | 62 | 60 |
| 8 | 400 | 50 | 650 | 9200 | 78 | 554 | 0,93 | 65 | 60 |
| 9 | 400 | 50 | 525 | 12700 | 0 | 183 | 0,38 | 63 | 60 |
| 10 | 400 | 50 | 525 | 11350 | 20 | 225 | 0,35 | 59 | 60 |
| 11 | 400 | 50 | 525 | 9100 | 40 | 265 | 0,53 | 58 | 60 |
| 12 | 400 | 50 | 525 | 7400 | 51 | 292 | 0,57 | 61 | 60 |
| 13 | 400 | 50 | 400 | 9700 | 0 | 81 | 0,21 | 57 | 60 |
| 14 | 400 | 50 | 400 | 8700 | 11 | 97 | 0,24 | 53 | 60 |
| 15 | 400 | 50 | 400 | 7000 | 23 | 117 | 0,27 | 52 | 60 |
| 16 | 400 | 50 | 400 | 5700 | 29 | 128 | 0,28 | 55 | 60 |

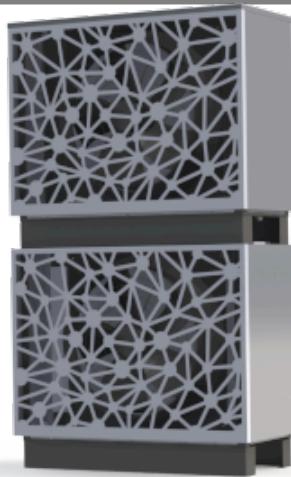
WAMAK AW 100 EVI HeavyDuty 2L1



WAMAK AW 100 EVI HeavyDuty 2L1 - Variant Split jednotky: VOII-1200-2HIGH

Potrebný počet jednotiek

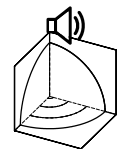
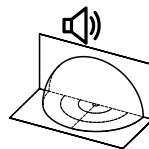
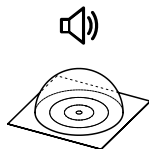
2



| Označenie krytovania: VOII-1200-2HIGH | | | Výparník | |
|---------------------------------------|------------|------|--|------------------------|
| Kód výrobku | WAVII12H | | Typ | Cu-coil /Al-fin " |
| Základné rozmery | Výška [mm] | 2450 | Pripojovacia dimenzia | 2 x (7/8" - 1.3/8") " |
| | Šírka [mm] | 1420 | Teplonosné médium | Vzduch |
| | Dĺžka [mm] | 710 | Objemový prietok - Vzduch [m3/h] | 15075 ~ 30150 |
| Váha zariadenia [kg] | 300 | | Vnútorná tlaková strata - Vzduch [kPa] | 2 x 0.061 |
| Farba krytovania | Sivá | | Teplotný spád - Vzduch | 7 K |
| IP trieda krytovania | IP44 | | Expanzný ventil | EEV |
| Ventilátor | 800 mm | | | |
| Počet ventilátorov | 2 | | Pozícia ventilátora | Horizontálna os |
| Typ motora ventilátora | EC | | Typ ventilátora | Axial |
| Nominálny prúd ventilátora [A] | 1.35 | | Napájanie ventilátora [V/Hz] | 3~ 400/50 |
| Minimálny príkon ventilátora [Watt] | 81 | | Maximálny príkon ventilátora [Watt] | 802 |

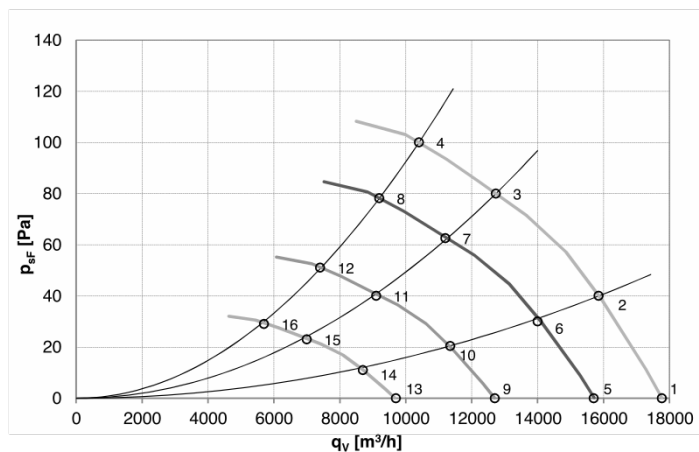
Zvuk - výkon Lw

66.3 dB(A)



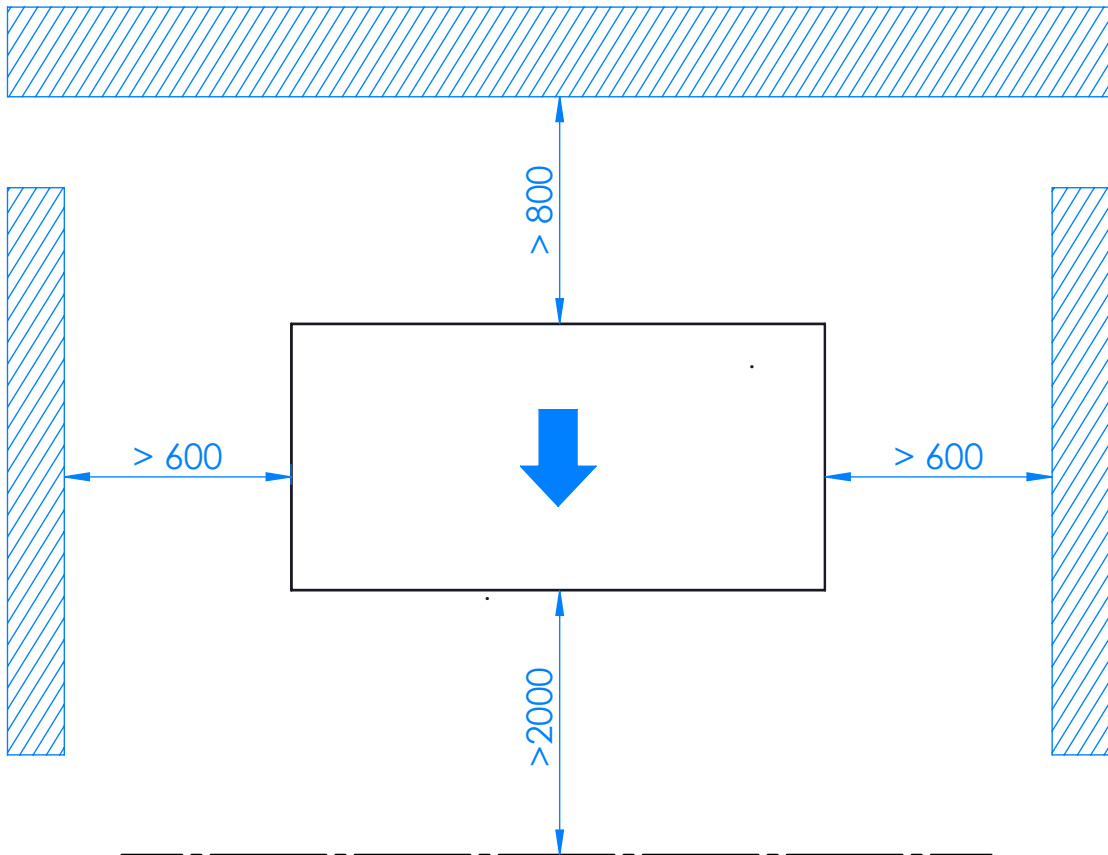
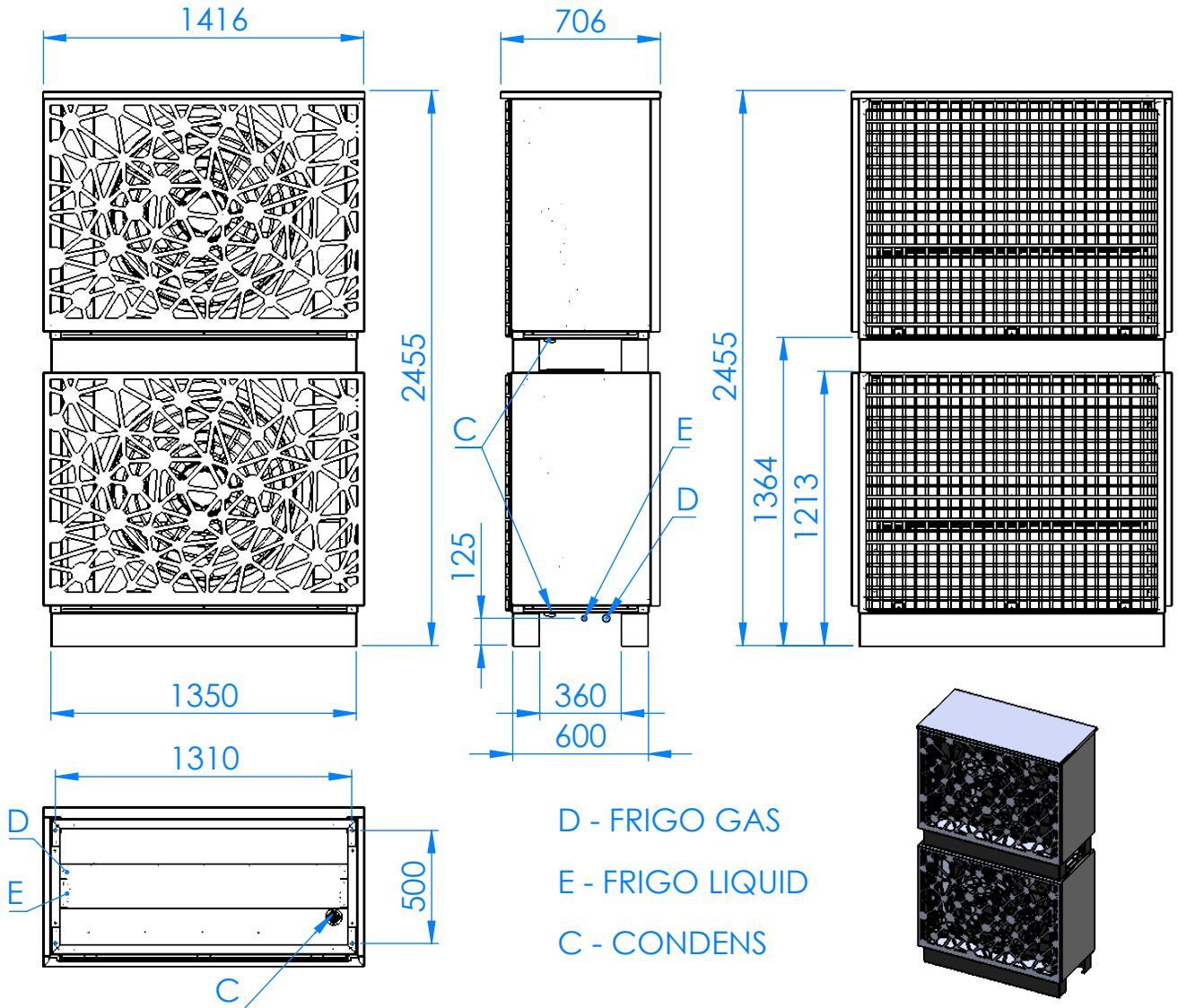
| Odstup [m] | 1 | | | | 5 | | | | 10 | | | | 15 | | | |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|----|---|----|----|
| | 1 | 5 | 10 | 15 | 1 | 5 | 10 | 15 | 1 | 5 | 10 | 15 | 1 | 5 | 10 | 15 |
| Zvuk - tlak Lp [dB(A)] | 61.3 | 47.3 | 41.3 | 37.8 | 64.3 | 50.3 | 44.3 | 40.8 | 58.3 | 44.3 | 38.3 | 34.8 | | | | |

EC Fan 800mm



| | U | f | n | q _v | P _{sF} | P _e | I | L _{WA out} | T _{a max} |
|----|-----|------|-------|----------------|-----------------|----------------|------|---------------------|--------------------|
| | [V] | [Hz] | [RPM] | [m³/h] | [Pa] | [W] | [A] | [dB (A)] | [°C] |
| 1 | 400 | 50 | 735 | 17770 | 0 | 503 | 0,85 | 70 | 60 |
| 2 | 400 | 50 | 735 | 15850 | 40 | 612 | 1,02 | 66 | 60 |
| 3 | 400 | 50 | 735 | 12730 | 80 | 735 | 1,18 | 65 | 60 |
| 4 | 400 | 50 | 735 | 10400 | 100 | 802 | 1,36 | 68 | 60 |
| 5 | 400 | 50 | 650 | 15700 | 0 | 348 | 0,68 | 67 | 60 |
| 6 | 400 | 50 | 650 | 14000 | 30 | 421 | 0,80 | 63 | 60 |
| 7 | 400 | 50 | 650 | 11200 | 63 | 510 | 0,92 | 62 | 60 |
| 8 | 400 | 50 | 650 | 9200 | 78 | 554 | 0,93 | 65 | 60 |
| 9 | 400 | 50 | 525 | 12700 | 0 | 183 | 0,38 | 63 | 60 |
| 10 | 400 | 50 | 525 | 11350 | 20 | 225 | 0,35 | 59 | 60 |
| 11 | 400 | 50 | 525 | 9100 | 40 | 265 | 0,53 | 58 | 60 |
| 12 | 400 | 50 | 525 | 7400 | 51 | 292 | 0,57 | 61 | 60 |
| 13 | 400 | 50 | 400 | 9700 | 0 | 81 | 0,21 | 57 | 60 |
| 14 | 400 | 50 | 400 | 8700 | 11 | 97 | 0,24 | 53 | 60 |
| 15 | 400 | 50 | 400 | 7000 | 23 | 117 | 0,27 | 52 | 60 |
| 16 | 400 | 50 | 400 | 5700 | 29 | 128 | 0,28 | 55 | 60 |

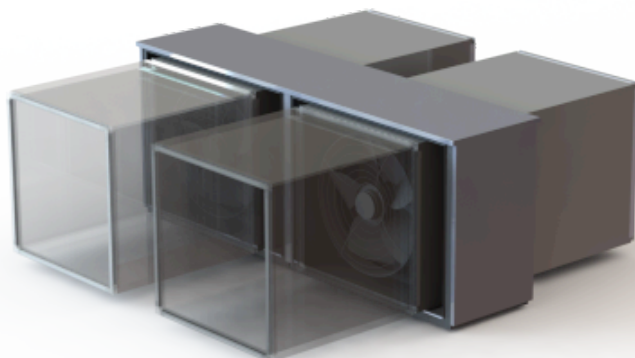
WAMAK AW 100 EVI HeavyDuty 2L1



WAMAK AW 100 EVI HeavyDuty 2L1 - Variant Split jednotky: VOII-1200-2LOW-DUCT

Potrebný počet jednotiek

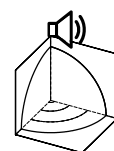
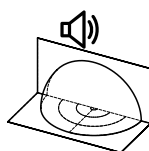
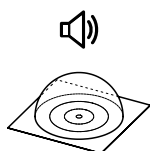
2



| Označenie krytovania: VOII-1200-2LOW-DUCT | | | Výparník | |
|---|------------|------|--|-----------------------|
| Kód výrobku | WAVID12L | | Typ | Cu-coil /Al-fin " |
| Základné rozmery | Výška [mm] | 1240 | Pripojovacia dimenzia | 2 x (7/8" - 1.3/8") " |
| | Šírka [mm] | 2850 | Teplonosné médium | Vzduch |
| | Dĺžka [mm] | 710 | Objemový prietok - Vzduch [m3/h] | 15075 ~ 30150 |
| Váha zariadenia [kg] | 300 | | Vnútorná tlaková strata - Vzduch [kPa] | 2 x 0.061 |
| Farba krytovania | Sivá | | Teplotný spád - Vzduch | 7 K |
| IP trieda krytovania | IP44 | | Expanzný ventil | EEV |
| Ventilátor | 800 mm | | | |
| Počet ventilátorov | 2 | | Pozícia ventilátora | Horizontálna os |
| Typ motora ventilátora | EC | | Typ ventilátora | Axial |
| Nominálny prúd ventilátora [A] | 1.35 | | Napájanie ventilátora [V/Hz] | 3~ 400/50 |
| Minimálny príkon ventilátora [Watt] | 81 | | Maximálny príkon ventilátora [Watt] | 802 |

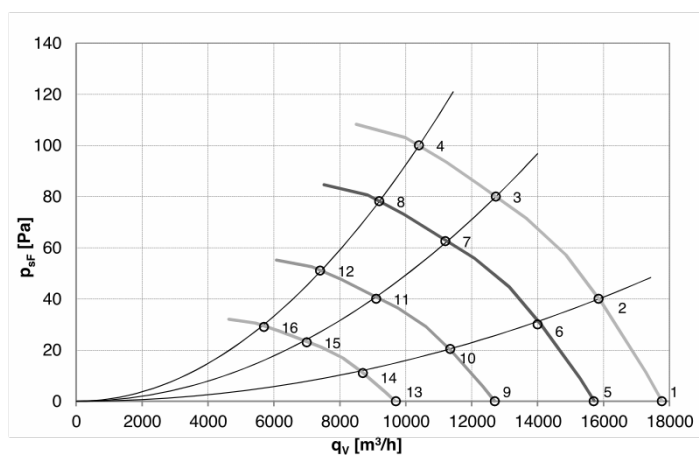
Zvuk - výkon Lw

66.3 dB(A)



| Odstup [m] | 1 | 5 | 10 | 15 | 1 | 5 | 10 | 15 | 1 | 5 | 10 | 15 |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Zvuk - tlak Lp [dB(A)] | 61.3 | 47.3 | 41.3 | 37.8 | 64.3 | 50.3 | 44.3 | 40.8 | 58.3 | 44.3 | 38.3 | 34.8 |

EC Fan 800mm

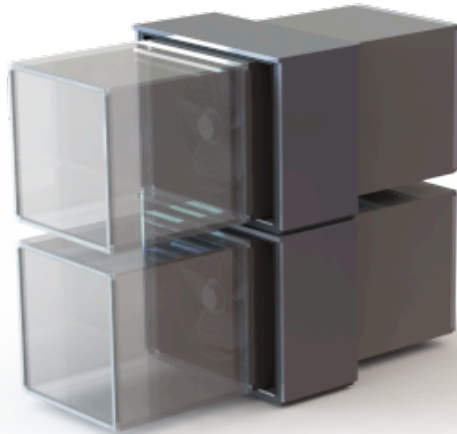


| | U | f | n | qv | P _{sF} | P _e | I | L _{WA out} | T _{a max} |
|----|-----|------|-------|--------|-----------------|----------------|------|---------------------|--------------------|
| | [V] | [Hz] | [RPM] | [m³/h] | [Pa] | [W] | [A] | [dB (A)] | [°C] |
| 1 | 400 | 50 | 735 | 17770 | 0 | 503 | 0,85 | 70 | 60 |
| 2 | 400 | 50 | 735 | 15850 | 40 | 612 | 1,02 | 66 | 60 |
| 3 | 400 | 50 | 735 | 12730 | 80 | 735 | 1,18 | 65 | 60 |
| 4 | 400 | 50 | 735 | 10400 | 100 | 802 | 1,36 | 68 | 60 |
| 5 | 400 | 50 | 650 | 15700 | 0 | 348 | 0,68 | 67 | 60 |
| 6 | 400 | 50 | 650 | 14000 | 30 | 421 | 0,80 | 63 | 60 |
| 7 | 400 | 50 | 650 | 11200 | 63 | 510 | 0,92 | 62 | 60 |
| 8 | 400 | 50 | 650 | 9200 | 78 | 554 | 0,93 | 65 | 60 |
| 9 | 400 | 50 | 525 | 12700 | 0 | 183 | 0,38 | 63 | 60 |
| 10 | 400 | 50 | 525 | 11350 | 20 | 225 | 0,35 | 59 | 60 |
| 11 | 400 | 50 | 525 | 9100 | 40 | 265 | 0,53 | 58 | 60 |
| 12 | 400 | 50 | 525 | 7400 | 51 | 292 | 0,57 | 61 | 60 |
| 13 | 400 | 50 | 400 | 9700 | 0 | 81 | 0,21 | 57 | 60 |
| 14 | 400 | 50 | 400 | 8700 | 11 | 97 | 0,24 | 53 | 60 |
| 15 | 400 | 50 | 400 | 7000 | 23 | 117 | 0,27 | 52 | 60 |
| 16 | 400 | 50 | 400 | 5700 | 29 | 128 | 0,28 | 55 | 60 |

WAMAK AW 100 EVI HeavyDuty 2L1 - Variant Split jednotky: VOII-1200-2HIGH-DUCT

Potrebný počet jednotiek

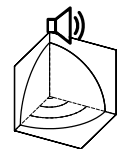
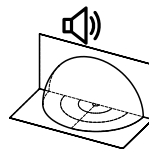
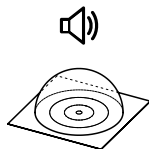
2



| Označenie krytovania: VOII-1200-2HIGH-DUCT | | | Výparník | |
|--|------------|------|--|-----------------------|
| Kód výrobku | WAVID12H | | Typ | Cu-coil /Al-fin " |
| Základné rozmery | Výška [mm] | 2450 | Pripojovacia dimenzia | 2 x (7/8" - 1.3/8") " |
| | Šírka [mm] | 1420 | Teplonosné médium | Vzduch |
| | Dĺžka [mm] | 710 | Objemový prietok - Vzduch [m3/h] | 15075 ~ 30150 |
| Váha zariadenia [kg] | 300 | | Vnútorná tlaková strata - Vzduch [kPa] | 2 x 0.061 |
| Farba krytovania | Sivá | | Teplotný spád - Vzduch | 7 K |
| IP trieda krytovania | IP44 | | Expanzný ventil | EEV |
| Ventilátor | 800 mm | | | |
| Počet ventilátorov | 2 | | Pozícia ventilátora | Horizontálna os |
| Typ motora ventilátora | EC | | Typ ventilátora | Axial |
| Nominálny prúd ventilátora [A] | 1.35 | | Napájanie ventilátora [V/Hz] | 3~ 400/50 |
| Minimálny príkon ventilátora [Watt] | 81 | | Maximálny príkon ventilátora [Watt] | 802 |

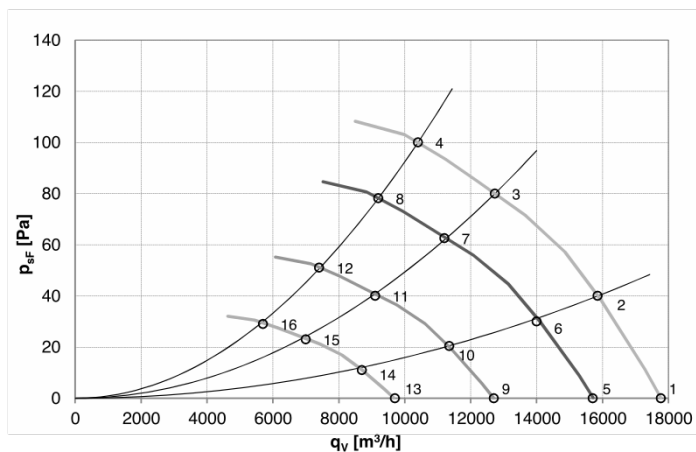
Zvuk - výkon Lw

66.3 dB(A)



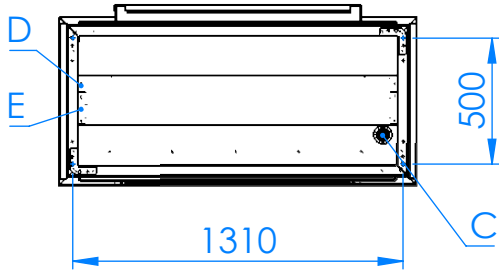
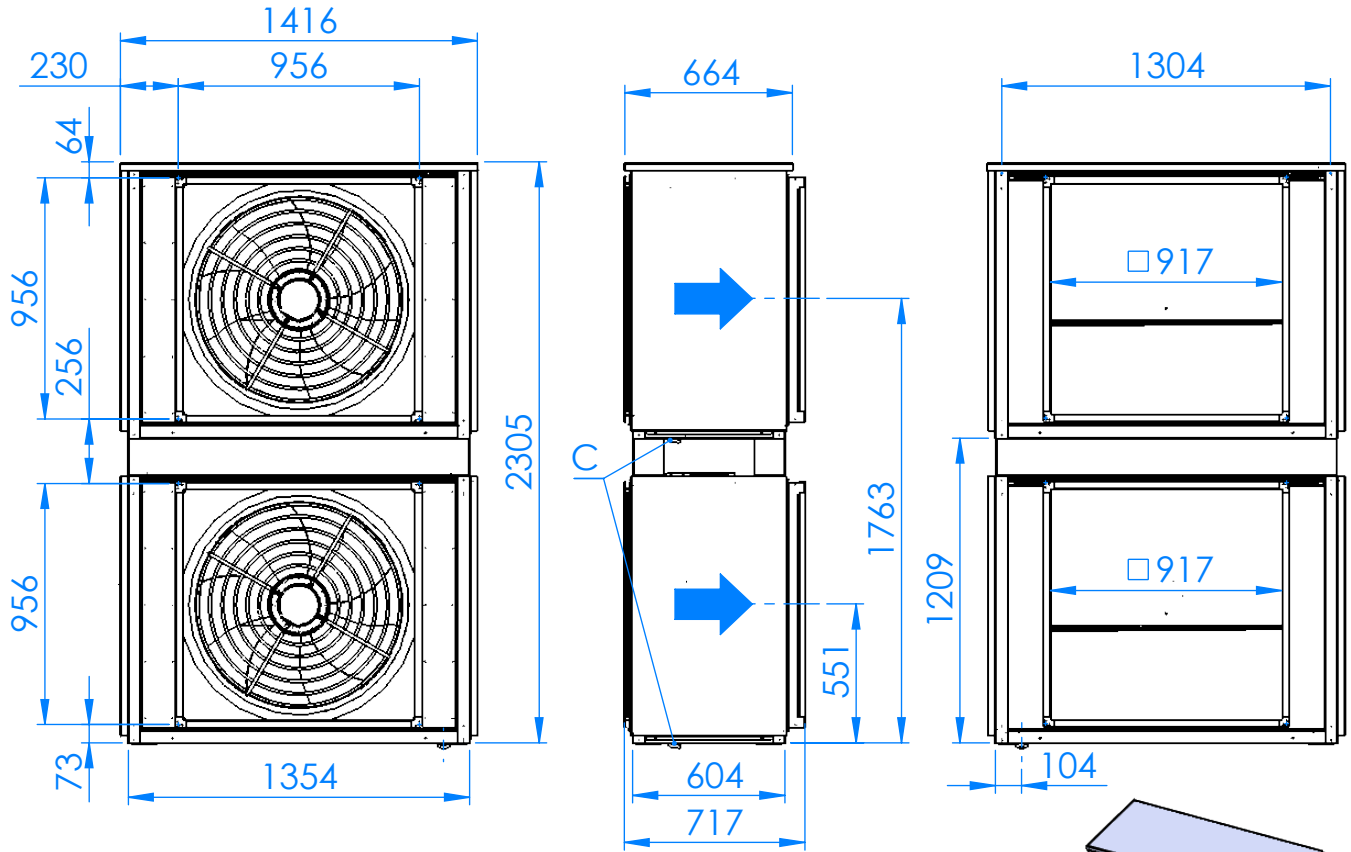
| Odstup [m] | 1 | 5 | 10 | 15 | 1 | 5 | 10 | 15 | 1 | 5 | 10 | 15 |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Zvuk - tlak Lp [dB(A)] | 61.3 | 47.3 | 41.3 | 37.8 | 64.3 | 50.3 | 44.3 | 40.8 | 58.3 | 44.3 | 38.3 | 34.8 |

EC Fan 800mm

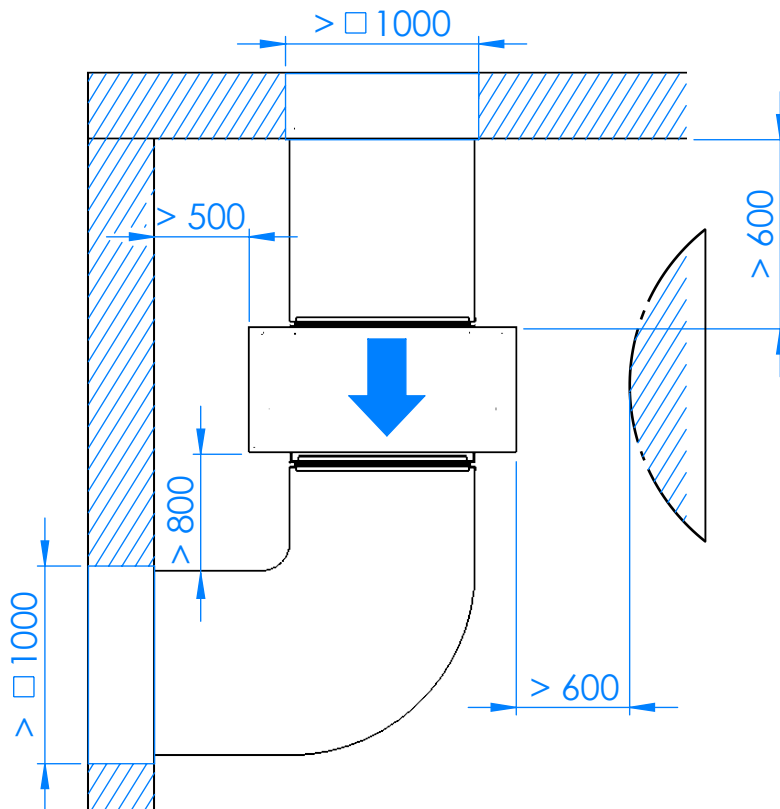
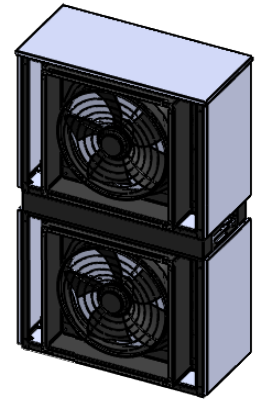


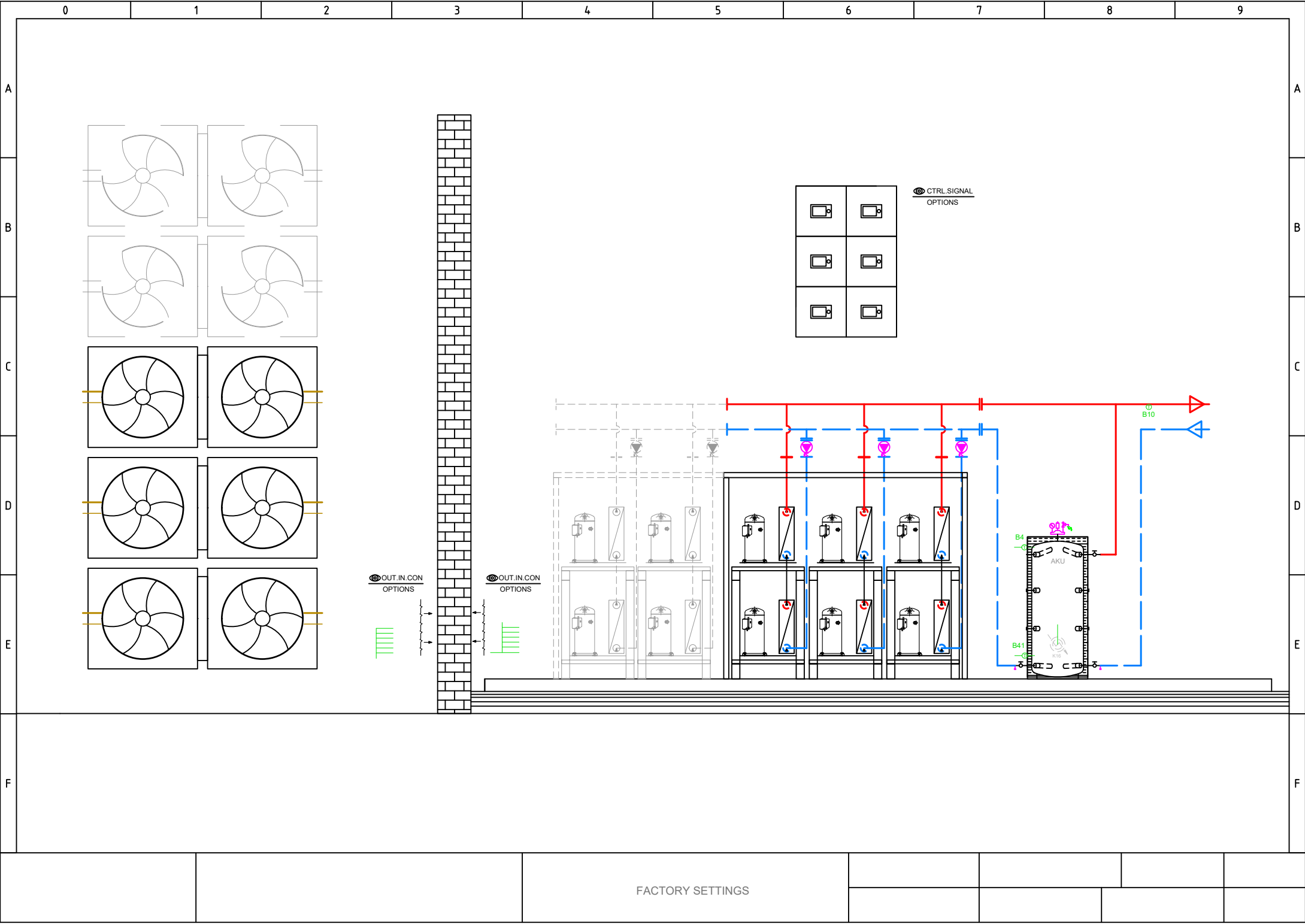
| | U [V] | f [Hz] | n [RPM] | q_v [m³/h] | P_{st} [Pa] | P_o [W] | I [A] | $L_{wA out}$ [dB (A)] | $T_a max$ [°C] |
|----|-------|--------|---------|--------------|---------------|-----------|-------|-----------------------|----------------|
| 1 | 400 | 50 | 735 | 17770 | 0 | 503 | 0,85 | 70 | 60 |
| 2 | 400 | 50 | 735 | 15850 | 40 | 612 | 1,02 | 66 | 60 |
| 3 | 400 | 50 | 735 | 12730 | 80 | 735 | 1,18 | 65 | 60 |
| 4 | 400 | 50 | 735 | 10400 | 100 | 802 | 1,36 | 68 | 60 |
| 5 | 400 | 50 | 650 | 15700 | 0 | 348 | 0,68 | 67 | 60 |
| 6 | 400 | 50 | 650 | 14000 | 30 | 421 | 0,80 | 63 | 60 |
| 7 | 400 | 50 | 650 | 11200 | 63 | 510 | 0,92 | 62 | 60 |
| 8 | 400 | 50 | 650 | 9200 | 78 | 554 | 0,93 | 65 | 60 |
| 9 | 400 | 50 | 525 | 12700 | 0 | 183 | 0,38 | 63 | 60 |
| 10 | 400 | 50 | 525 | 11350 | 20 | 225 | 0,35 | 59 | 60 |
| 11 | 400 | 50 | 525 | 9100 | 40 | 265 | 0,53 | 58 | 60 |
| 12 | 400 | 50 | 525 | 7400 | 51 | 292 | 0,57 | 61 | 60 |
| 13 | 400 | 50 | 400 | 9700 | 0 | 81 | 0,21 | 57 | 60 |
| 14 | 400 | 50 | 400 | 8700 | 11 | 97 | 0,24 | 53 | 60 |
| 15 | 400 | 50 | 400 | 7000 | 23 | 117 | 0,27 | 52 | 60 |
| 16 | 400 | 50 | 400 | 5700 | 29 | 128 | 0,28 | 55 | 60 |

WAMAK AW 100 EVI HeavyDuty 2L1



D - FRIGO GAS
E - FRIGO LIQUID
C - CONDENS





| | |
|--|--|
| | |
| | |
| | |

CTRL.SIGNAL
OPTIONS

OUT.IN.CON
OPTIONS

OUT.IN.CON
OPTIONS

B4
AKU
B10
B41
K18

FACTORY SETTINGS



Hlavné napájanie 230V / 50 Hz
 Uzemnenie
 Nulový vodič

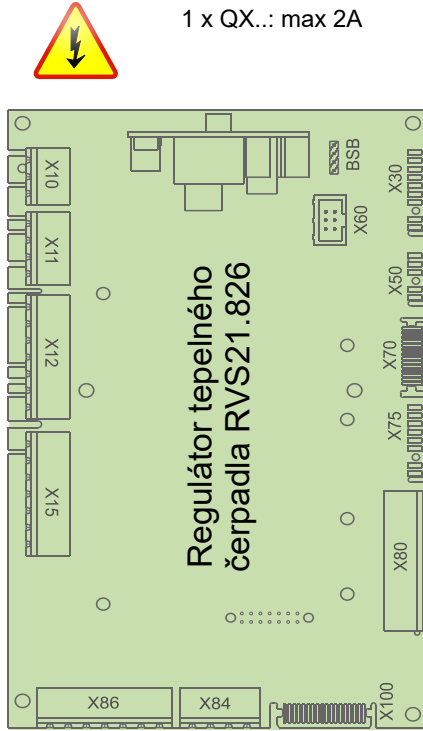
- E10 Spínač vysokého tlaku E10
- E11 Preťaženie kompresora E11
- E14 Preťaženie zdroja E14
- E24 Spínač prietoku spotreby E24
- K82 Ventil EVI K82

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 |

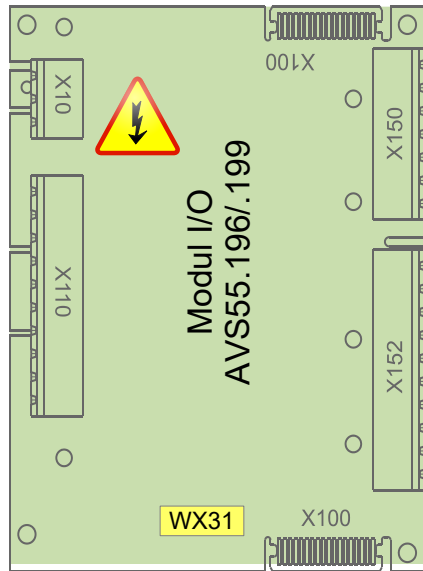
- B71 Snímač teploty spiatocky TČ B71
- B9 Snímač vonkajšej teploty B9

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 | N |
| X110 | 1 | QX33 |
| X110 | 1 | N |
| X110 | 1 | ZX34 |
| X110 | 1 | N |
| X115 | 1 | QX35 |
| X115 | 1 | QX35i |
| X115 | 1 | N |

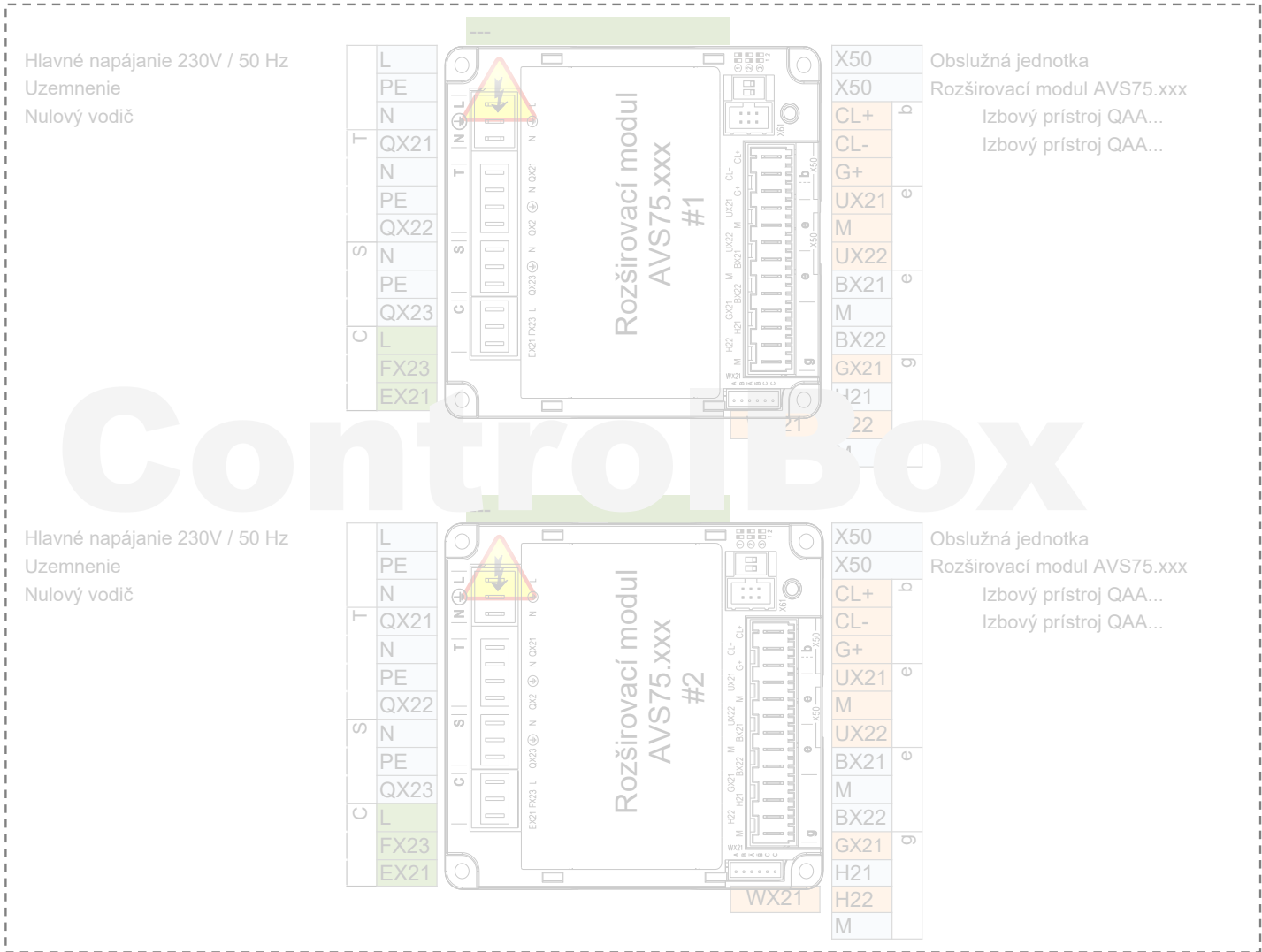


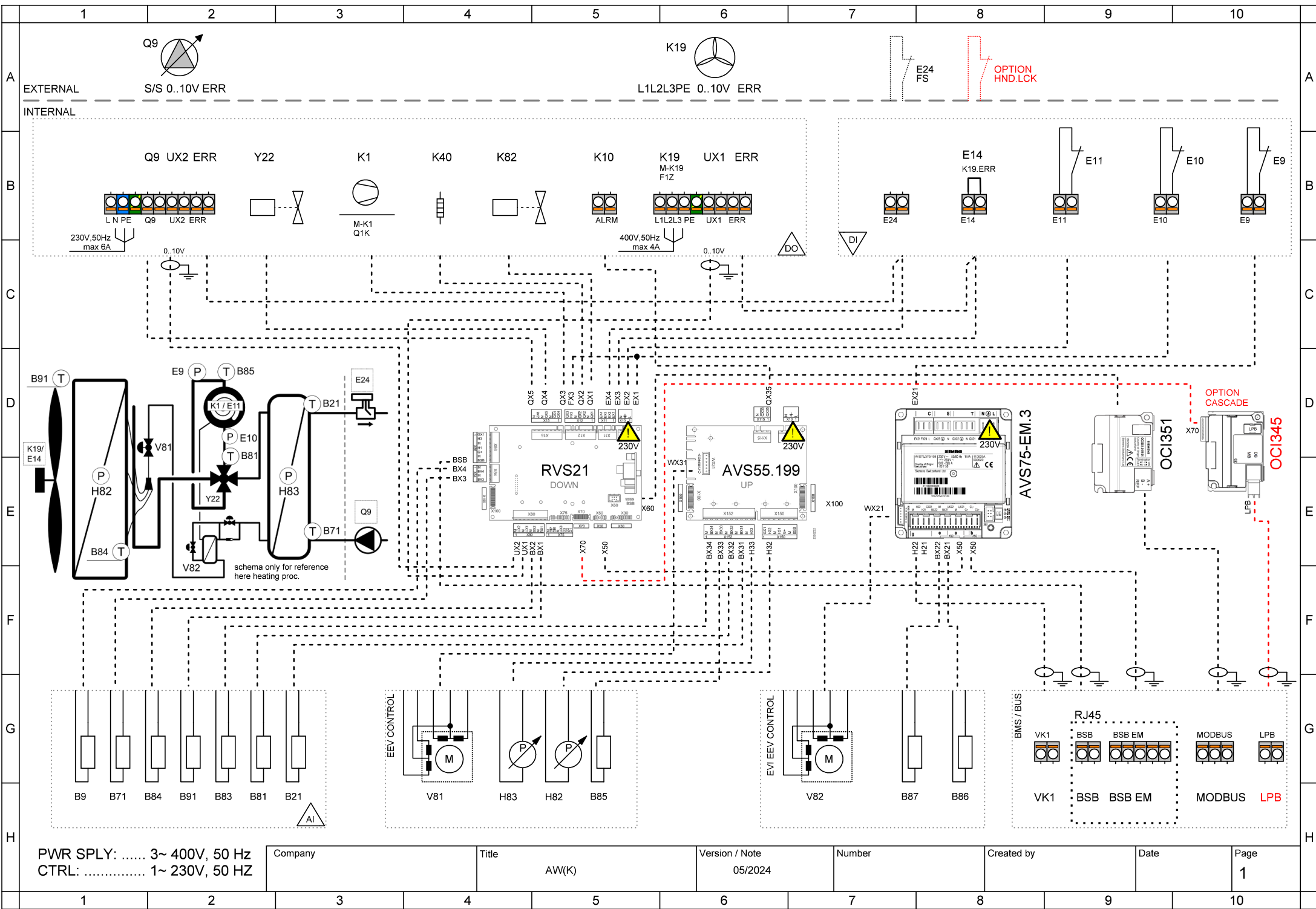
| |
|------|
| BSB |
| M |
| G+ |
| H31 |
| M |
| H32 |
| GX1 |
| H33 |
| M |
| BX31 |
| M |
| BX32 |
| M |
| BX33 |
| M |
| BX34 |
| M |

- 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



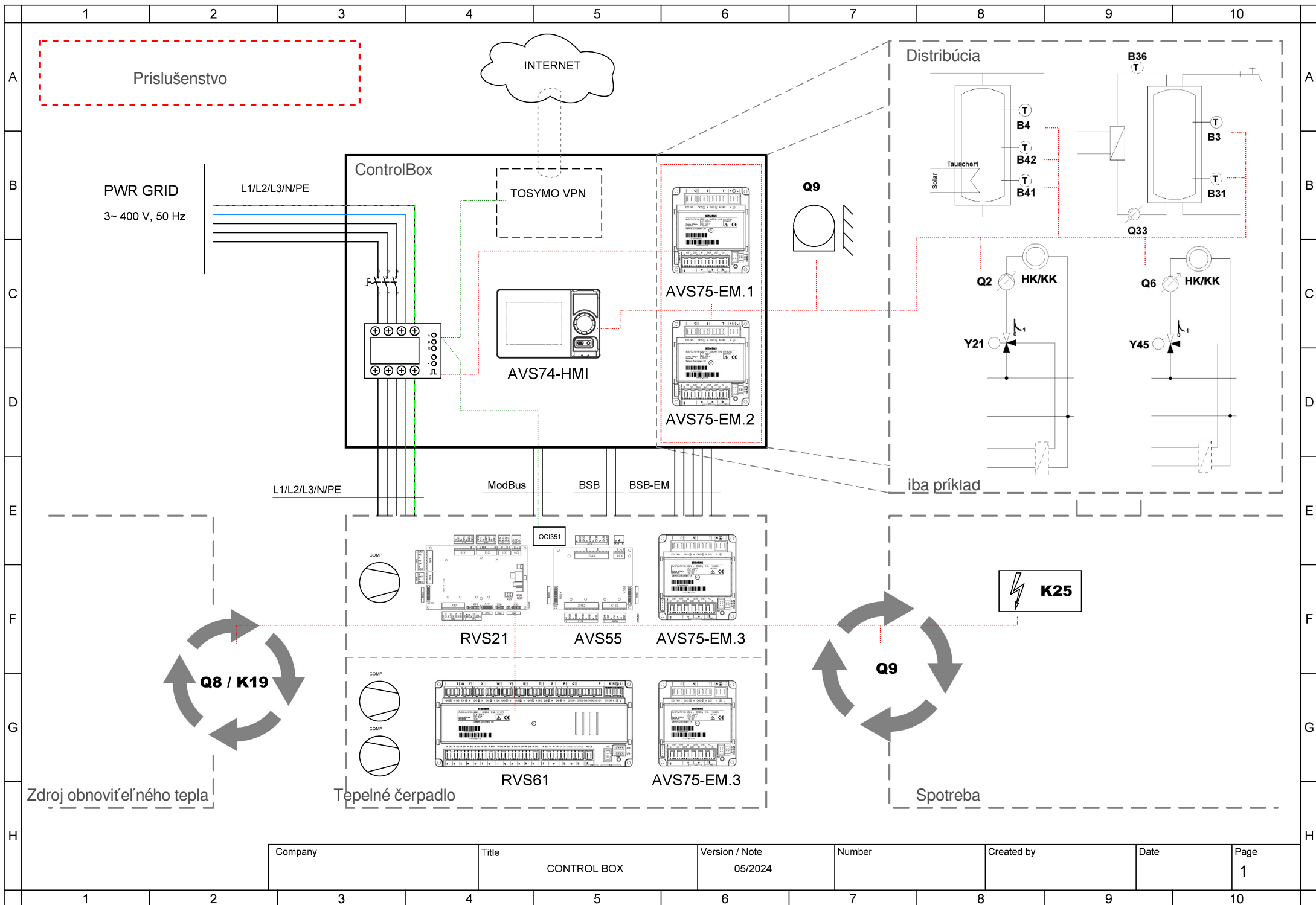
- AVS75.390
- AVS75.391
- AVS75.370



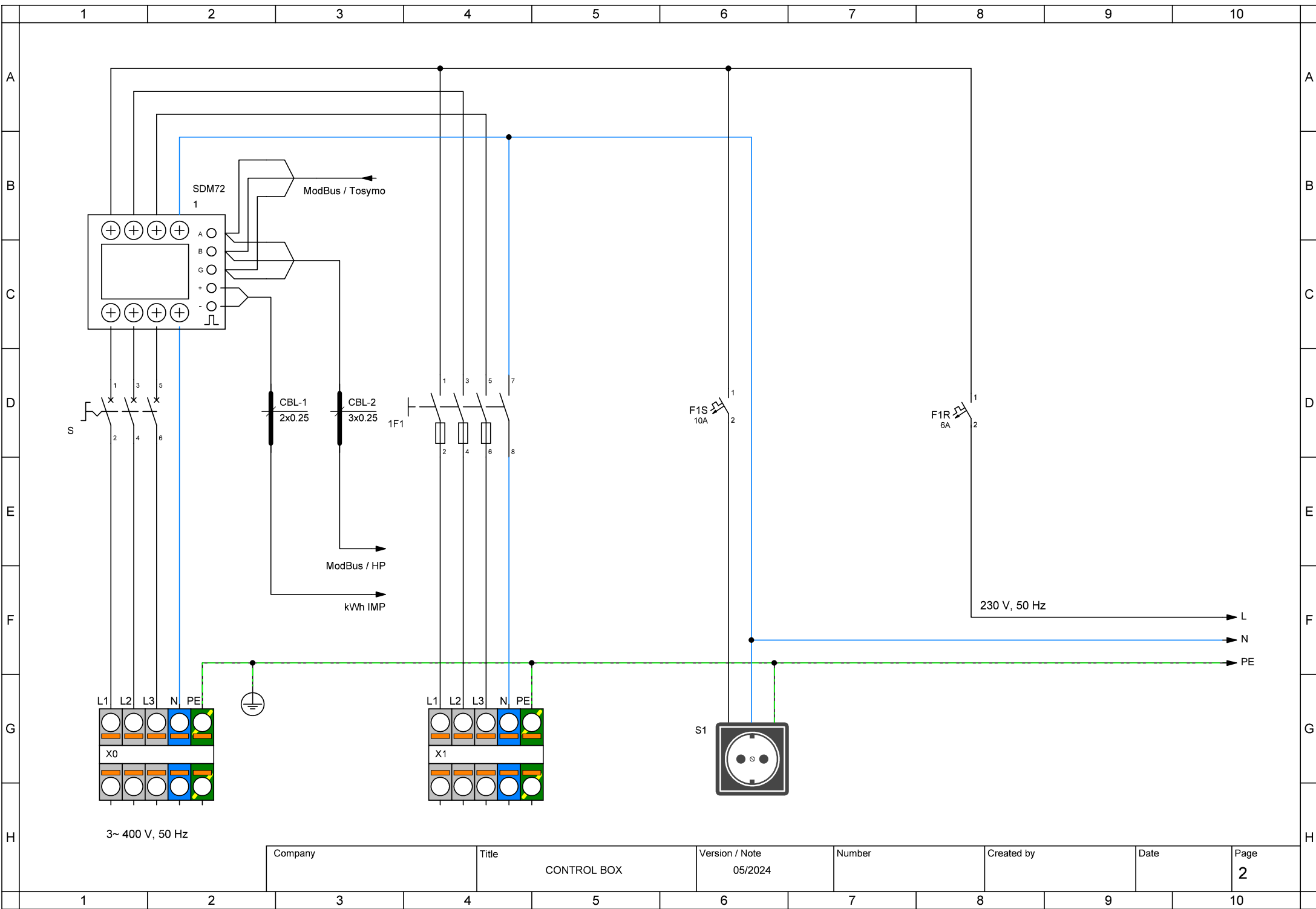


PWR SPLY: 3~ 400V, 50 Hz
CTRL: 1~ 230V, 50 HZ

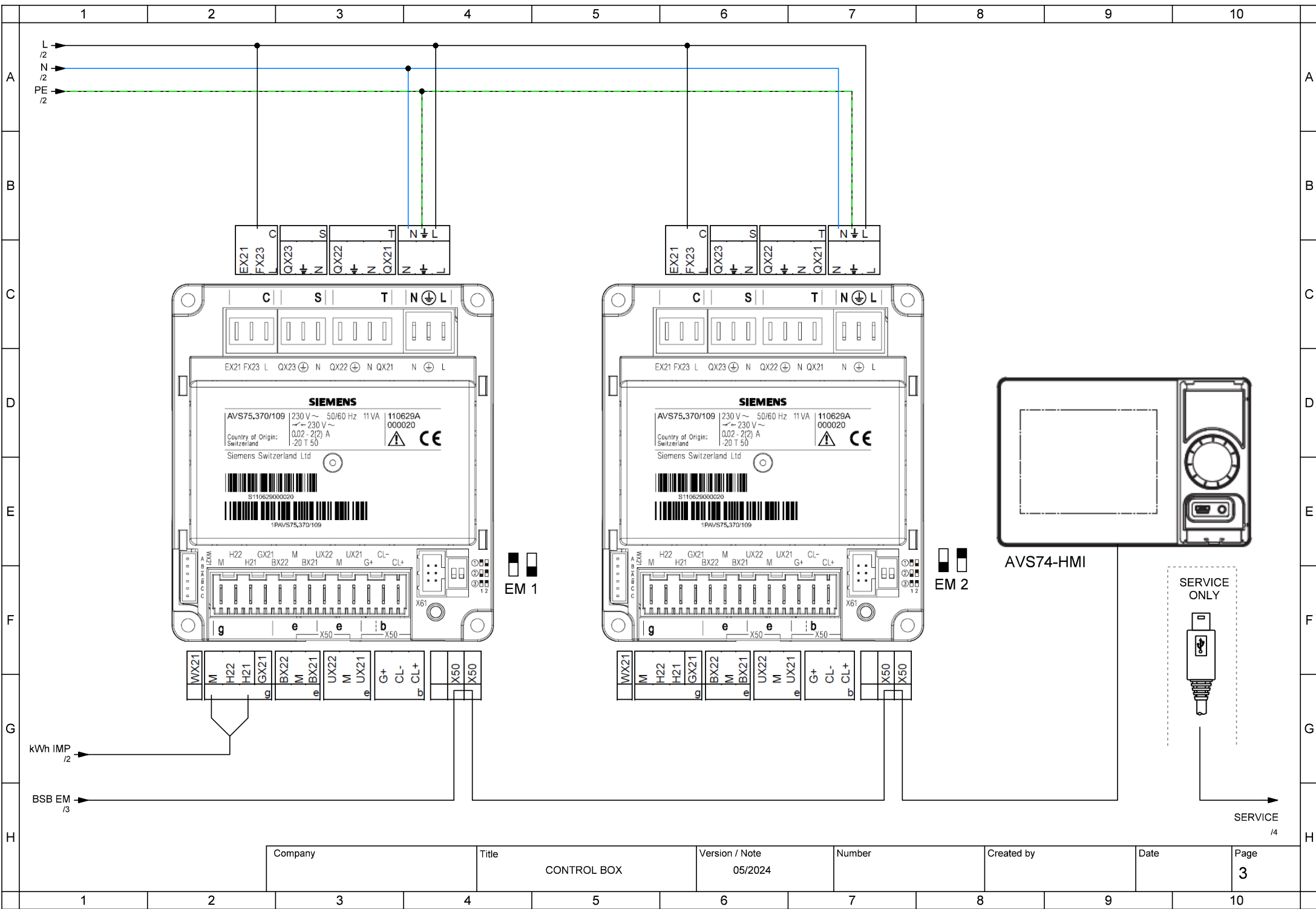
| | | | | | | |
|---------|-------|----------------|--------|------------|------|------|
| Company | Title | Version / Note | Number | Created by | Date | Page |
| AW(K) | AW(K) | 05/2024 | | | | 1 |



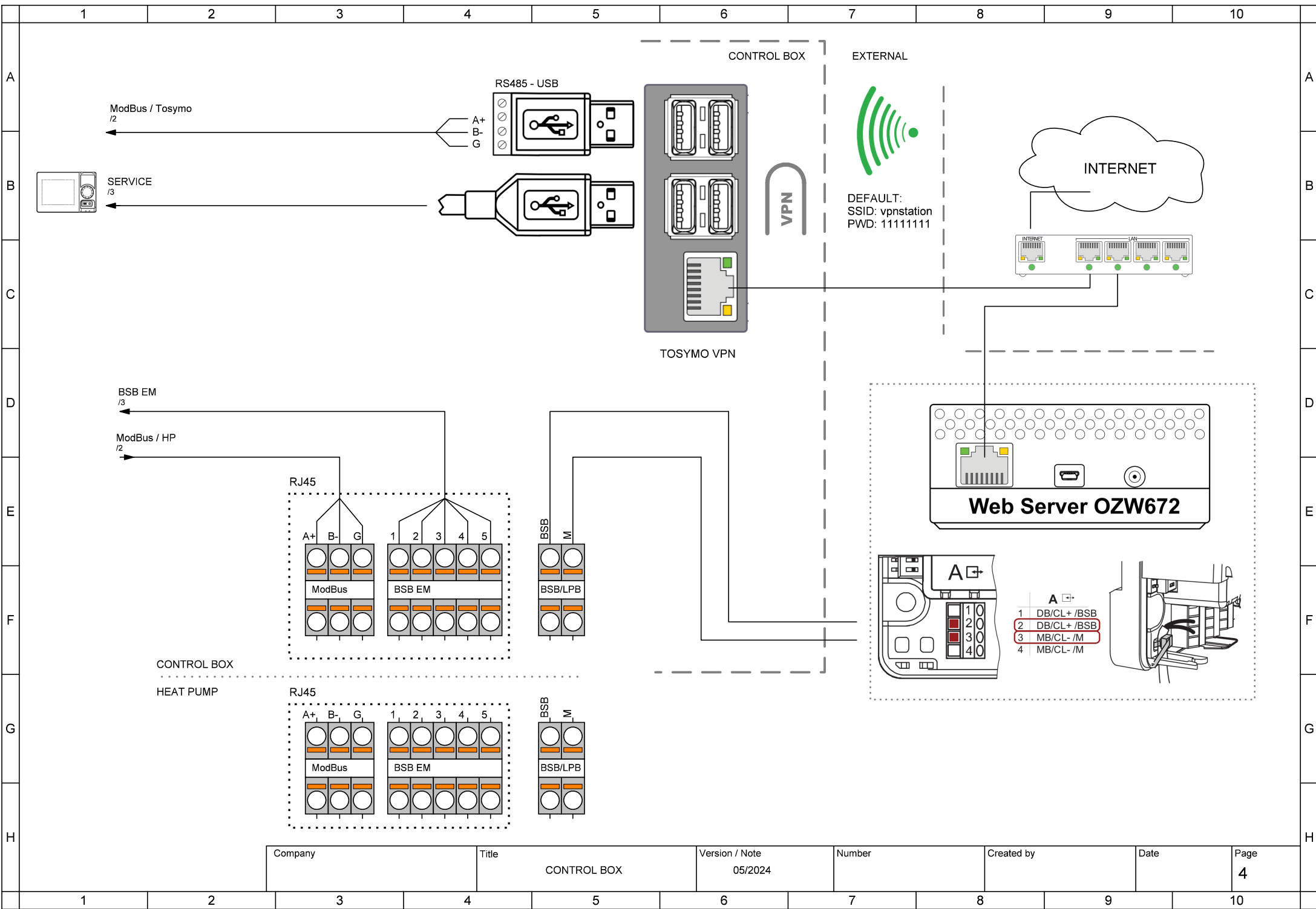
| | | | | | | |
|---------|-------------|----------------|--------|------------|------|------|
| Company | Title | Version / Note | Number | Created by | Date | Page |
| | CONTROL BOX | 05/2024 | | | | 1 |



| | | | | | | |
|---------|-------------|----------------|--------|------------|------|------|
| 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 |

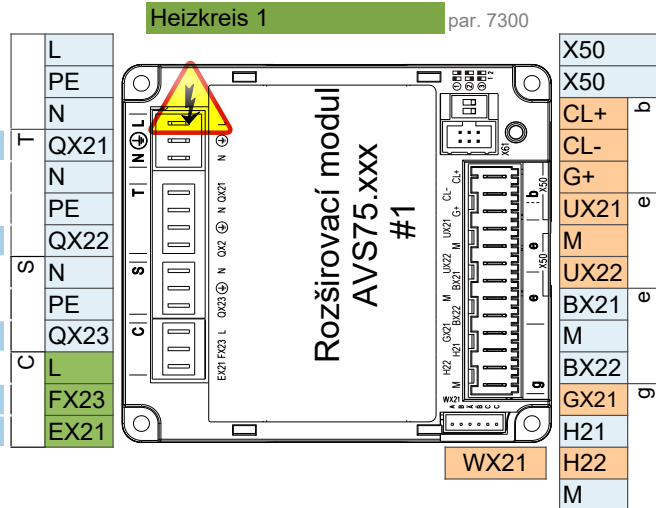


| | | | | | | |
|---------|-------------|----------------|--------|------------|------|------|
| Company | Title | Version / Note | Number | Created by | Date | Page |
| | CONTROL BOX | 05/2024 | | | | 4 |



- 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

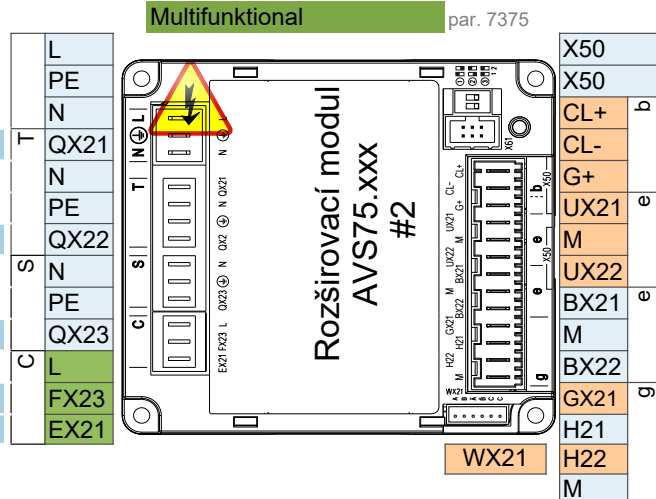


- Rozšiřovací modul AVS75.xxx
 Izbový prístroj QAA...
 Izbový prístroj QAA...

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

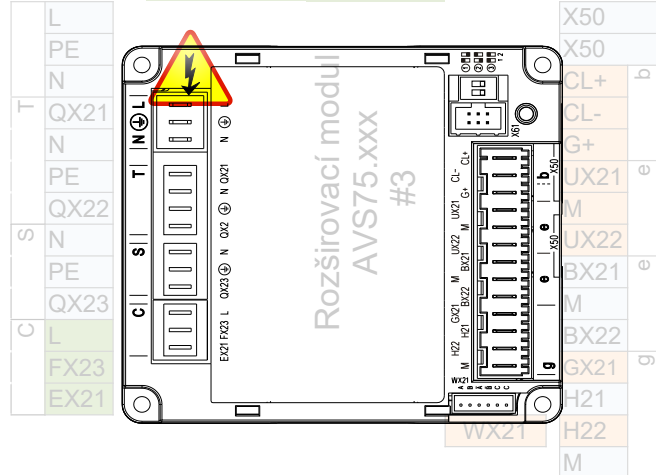


- Obslužná jednotka
 Rozšiřovací modul AVS75.xxx
 Izbový prístroj QAA...
 Izbový prístroj QAA...

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

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 mm² - 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 mm² - Nastavená hodnota: 0V = 16°C ~ 10V = 60°C (možnosť úpravy v nastavení parametrov)

Pripojovacia svorka - pozri schému zapojenia

4 ModBus RTU komunikačný príkaz

3 žilový tienený kábel min. 3 x 0,25 mm²

Pre tabuľku mapovania ModBus kontaktujte technickú podporu

5 MQTT IoT komunikačný protokol

Pre viac informácií kontaktujte technickú podporu