

Basic performance data - WAMAK AW 500 EVI HeavyDuty 2L5

| Heating - EN 14511 | | |
|--|--------------------|------------------------|
| Heating capacity [kW] | A7 / W35 | 490.9 (49.1 / 490.9) |
| | A2 / W35 | 417.0 (41.7 / 417.0) |
| | A-7 / W34 | 349.9 (35.0 / 349.9) |
| Electrical power input [kW] | A7 / W35 | 113.8 (10.6 / 113.8) |
| | A2 / W35 | 113.7 (10.6 / 113.7) |
| | A-7 / W34 | 110.5 (10.3 / 110.5) |
| Heating efficiency faktor [COP] | A7 / W35 | 4.31 |
| | A2 / W35 | 3.67 |
| | A-7 / W34 | 3.17 |
| Seasonal space heating energy efficiency - SCOP EN 14825 | | |
| Average Climate / Low Temperature [35 °C] | SCOP | 4.24 |
| | η [%] | 169.6 |
| | Label | A+++ |
| | Qhe [kWh] | 192967.3 |
| | Pdesignh [kW] | 396.7 |
| | Tbivalent [°C] | -7 |
| Cooling | | |
| Cooling capacity - [kW] | A35 / W23-18 | 484.3 |
| | A25 / W23-18 | 509.0 |
| | A35 / W12-7 | 363.8 |
| | A25 / W12-7 | 363.8 |
| Seasonal space cooling energy efficiency - SEER EN 14825 | | |
| [W 23 / 18 °C] | SEER | 4.55 |
| | Qce [kWh] | 218280.0 |
| | η_c [%] | 182.2 |
| Sound EN 12102 | | |
| Acoustic power - Lw | dB(A) | 77.1 |
| Acoustic pressure - Lp | 1 m dB(A) | 69.1 |
| | 5 m dB(A) | 55.1 |
| | 10 m dB(A) | 49.1 |
| Mechanical and operational information | | |
| Compressor type (3~ 400/50) | SCROLL / 10 / | On/Off |
| Refrigerant | R410A (GWP - 2088) | 10 x 9.6 kg |
| Operating limit temperatures heating - (min / max) [°C] | | 25 / 65 |
| Operating limit temperatures source - (min / max) [°C] | | -22 / 40 |
| Weight | | 2475 kg |

Main technical data - WAMAK AW 500 EVI HeavyDuty 2L5

| Enclosure type | | HD2L5 | | Heat energy rejection side data | |
|--|--------------------|-------------------|--|---|-----------------------|
| Basic dimensions | Height [mm] | 2000 | | Operating limit temperatures heating | MAX [°C] 65 |
| | Width [mm] | 3450 | | | MIN [°C] 25 |
| | Length [mm] | 1200 | | for more see operating limits diagram | |
| Weight [kg] | 2475 | | Condenser | Port size | 10 x 2 " |
| Colour | Gray | | | Type | BPHE |
| Enclosure IP Class | IP20 | | | Count | 10 |
| | | | | Material | AISI 316 |
| Refrigeration cycle | | | Maximal operating pressure - refrigerant [bar] 50 | | |
| Compressor | Type | Scroll | | Maximal operating pressure - Water [bar] 6 | |
| | Number of stages | 10 | | Testing pressure [bar] 70 | |
| | On/Off | | | Heat transfer medium Water | |
| | Power factor Cosφ | 0.64 | | Volume flow @ dT 5K (nom) - Water [m3/h] 8.48 ~ 84.77 | |
| | Winding resistance | 0.76 Ohm | | Internal pressure drop - Water [kPa] 10 x 20 | |
| Refrigerant | | R410A | | Temperature difference @ 35°C (nom) 5 K | |
| | Volme | 10 x 9.6 kg | | @ 55°C 8 K | |
| | GWP | 2088 | | @ 65°C 10 K | |
| | Safety class | A1 | | | |
| Refrigeration oil type | POE RL32-3MAF | | Renewable energy extraction side data | | |
| | Oil volume | 10 x 3.38 L | | Operating limit temperatures source | MIN [°C] -22 |
| Maximal pressure - refrigerant [bar] | 50 | | | | MAX [°C] 40 |
| | PED class | 2 | | for more see operating limits diagram | |
| EVI - vapour injection with economizer | | | Evaporator | Port size | 10 x (7/8" - 1.3/8") |
| APS System of liquid subcooling | | | | Type | Cu-coil /Al-fin |
| Reversible operation (cooling) | | | | Count | 10 |
| Reverse defrosting with hot gas | | | | Material | Cu/Al |
| Plate exchanger protection HG-BYPASS | | | Maximal operating pressure - refrigerant [bar] 29 | | |
| Electrical connection data | | | Heat transfer medium Air | | |
| Line voltage [#~ V/Hz] | | 3~ 400/50 | | Volume flow - Air [m3/h] 15072 ~ 150720 | |
| Current | nominal [A] | 235.30 | | Internal pressure drop - Air [kPa] 10 x 0.061 | |
| | maximal [A] | 374.00 | | Temperature difference - Air 7 K | |
| | starting [A] | 57.2 | | Possible outdoor units 5 x VOV900X2-FRAME | |
| Softstart | - | | 10 x VOII-1200-2LOW | | |
| Main safety | C400 | | 10 x VOII-1200-2HIGH | | |
| Control System | | | 10 x VOII-1200-2LOW-DUCT | | |
| Main controller | SIEMENS | RVS 21 AVS 55.199 | | 10 x VOII-1200-2HIGH-DUCT | |
| Extension module | AVS75.3xx | AVS75.3xx | AVS75.372 | | |
| Bus Clip-In | | LPB OCI346 | Modbus OCI352 | | |
| Online connection | | Web server OZW672 | ToSyMo | | |
| Superheat controller | | | SEC61 | | |
| Split System (compressor indoors) | | | Liquid line dimension (up to 8 meters IU/OU) 10 x 7/8" | | |
| | | | Suction line dimension (up to 8 meters IU/OU) 10 x 1.3/8" | | |
| | | | Surcharge of refrigerant over 8 meter distance IU/OU 10 x 0.35 kg/m | | |
| *** with accessory | | | air - water SPLIT heat pumps indoor units are delivered without full refrigerant charge only with residual overpressure from testing | | |

WAMAK AW 500 EVI HeavyDuty 2L5

ErP (EU) No 811/2013: Technical parameters for heat pump space heaters

| Model | AW 500 EVI HeavyDuty 2L5 |
|--------------------------------------|--------------------------|
| Air-to-water heat pump | yes |
| Brine-to-water heat pump | no |
| Water-to-water heat pump | no |
| Low-temperature heat pump | no |
| Equipped with a supplementary heater | no |
| Heat pump combination heater | no |
| Temperature application | low (35°C - 30°C) |
| Climate conditions | average |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|-----------------|----------|------|--|-------------|----------------|-------------------|
| Rated heat output at Tdesignh | Prated | 396.7 | kW | Seasonal space heating energy efficiency | η_s | 169.6 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = -7 °C | Pdh | 349.9 | kW | Tj = -7 °C | COPd | 3.17 | - |
| Tj = +2 °C | Pdh | 412.5 | kW | Tj = +2 °C | COPd | 4.1 | - |
| Tj = +7 °C | Pdh | 485.9 | kW | Tj = +7 °C | COPd | 5.1 | - |
| Tj = +12 °C | Pdh | 574.5 | kW | Tj = +12 °C | COPd | 6.4 | - |
| Tj = bivalent temperature | Pdh | 344.0 | kW | Tj = bivalent temperature | COPd | 3.1 | - |
| Tj = operation limit temperature | Pdh | 250.9 | kW | Tj = operation limit temperature | COPd | 2.3 | - |
| Bivalent temperature | Tbiv | -7 | °C | Tj = operation limit temperature | TOL | -22 | °C |
| Power consumption in modes other than active mode | | | | Heating water operating limit temperature | WTOL | 65 | °C |
| Off mode | Poff | 0.040 | kW | Supplementary heater | | | |
| Thermostat-off mode | Pto | 0.010 | kW | Rated heat output | Psup | 175.9 | kW |
| Standby mode | Psb | 0.010 | kW | Type of energy input | electricity | | |
| Crankcase heater mode | Pck | 0.050 | kW | For air-to-water heat pumps: | | | |
| Other items | | | | Rated air flow rate, outdoors | - | 15072 ~ 150720 | m ³ /h |
| Capacity control | multi-stage | | | For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | | | |
| Sound power level | | | | | | | |
| indoors | Lwa | 77 | dB | | | | |
| outdoors | Lwa | 82 | dB | | | | |
| Annual energy consumption | Q _{HE} | 192967.3 | kWh | | | | |

Contact details: WAMAK, s.r.o., Orovnicna 252, 96652, Orovnicna, Slovakia, info@wamak.sk

WAMAK AW 500 EVI HeavyDuty 2L5

ErP (EU) No 811/2013: Technical parameters for heat pump space heaters

| | |
|--------------------------------------|---------------------------------|
| Model | AW 500 EVI HeavyDuty 2L5 |
| Air-to-water heat pump | yes |
| Brine-to-water heat pump | no |
| Water-to-water heat pump | no |
| Low-temperature heat pump | no |
| Equipped with a supplementary heater | no |
| Heat pump combination heater | no |
| Temperature application | middle (55°C - 47°C) |
| Climate conditions | average |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|-----------------|----------|------|--|-------------|-------------------|-------------------|
| Rated heat output at Tdesignh | Prated | 416.2 | kW | Seasonal space heating energy efficiency | η_s | 132.6 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = -7 °C | Pdh | 365.7 | kW | Tj = -7 °C | COPd | 2.24 | - |
| Tj = +2 °C | Pdh | 422.5 | kW | Tj = +2 °C | COPd | 3.2 | - |
| Tj = +7 °C | Pdh | 491.4 | kW | Tj = +7 °C | COPd | 4.2 | - |
| Tj = +12 °C | Pdh | 575.7 | kW | Tj = +12 °C | COPd | 5.6 | - |
| Tj = bivalent temperature | Pdh | 361.3 | kW | Tj = bivalent temperature | COPd | 2.1 | - |
| Tj = operation limit temperature | Pdh | 264.5 | kW | Tj = operation limit temperature | COPd | 1.6 | - |
| Bivalent temperature | Tbiv | -7 | °C | Tj = operation limit temperature | TOL | -22 | °C |
| Power consumption in modes other than active mode | | | | Heating water operating limit temperature | WTOL | 65 | °C |
| Off mode | Poff | 0.040 | kW | Supplementary heater | | | |
| Thermostat-off mode | Pto | 0.010 | kW | Rated heat output | Psup | 175.9 | kW |
| Standby mode | Psb | 0.010 | kW | Type of energy input | electricity | | |
| Crankcase heater mode | Pck | 0.050 | kW | Other items | | | |
| Capacity control | multi-stage | | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | 15072 ~ 150720 | m ³ /h |
| Sound power level | | | | For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | --- | m ³ /h |
| indoors | Lwa | 77 | dB | | | | |
| outdoors | Lwa | 82 | dB | | | | |
| Annual energy consumption | Q _{HE} | 258972.7 | kWh | | | | |

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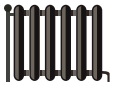


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AW 500 EVI

HeavyDuty 2L5



55 °C

35 °C



77 dB

82 dB

| | |
|-------|-------|
| ■ 438 | ■ 405 |
| ■ 417 | ■ 397 |
| ■ 408 | ■ 377 |
| kW | kW |

2019

811/2013

AW 500 EVI HeavyDuty
 2L5

ErP Data

| | 55 °C | 35 °C |
|---------------------|------------|-------------|
| Energy class | A++ | A+++ |
| η [%] | 132.6 | 169.6 |
| P_{rated} [kW] | 417 | 397 |
| Q_{HE} [kWh/y] | 258973 | 192968 |
| SCOP [-] | 3.32 | 4.24 |
| $T_{bivalent}$ [°C] | -7 | -7 |

CONTROLLER



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

Heating performance data

Version: v2024.010-AW

Average Climate / Low Temperature [35°C]

ZHI46K1P-TWD_R410A_10_AW

| Operating conditions | | Qh | P | COP |
|----------------------|-------------|-------|-------|------|
| 1 | A7 / W30-35 | 490.9 | 113.8 | 4.31 |
| 2 | A2 / W35 | 417.0 | 113.7 | 3.67 |
| 3 | A-22 / W35 | 250.9 | 108.4 | 2.31 |
| A | A-7 / W34 | 349.9 | 110.5 | 3.17 |
| B | A2 / W30 | 412.5 | 101.6 | 4.06 |
| C | A7 / W27 | 485.9 | 95.1 | 5.11 |
| D | A12 / W24 | 574.5 | 89.6 | 6.41 |
| E | A-10 / W35 | 344.0 | 112.8 | 3.05 |
| F | A-7 / W34 | 349.9 | 110.5 | 3.17 |

| SCOP DATA EN 14825:2018 | |
|---|-----------|
| Average Climate / Low Temperature [35°C] | |
| SCOPon | 4.25 |
| SCOPnet | 4.28 |
| SCOP | 4.24 |
| η [%] | 169.56 |
| Label | A+++ |
| Qh [kWh] | 192967.27 |
| Pdesignh [kW] | 396.7 |
| Tbivalent [°C] | -7.00 |

Average Climate / Medium Temperature [55°C]

| Operating conditions | | Qh | P | COP |
|----------------------|-------------|-------|-------|------|
| 1 | A7 / W47-55 | 500.9 | 178.5 | 2.81 |
| 2 | A2 / W55 | 432.1 | 177.2 | 2.44 |
| 3 | A-22 / W55 | 264.5 | 151.6 | 1.62 |
| A | A-7 / W52 | 365.7 | 163.2 | 2.24 |
| B | A2 / W42 | 422.5 | 132.7 | 3.18 |
| C | A7 / W36 | 491.4 | 116.4 | 4.22 |
| D | A12 / W30 | 575.7 | 102.1 | 5.64 |
| E | A-10 / W55 | 361.3 | 173.9 | 2.08 |
| F | A-7 / W55 | 368.2 | 174.4 | 2.11 |

| SCOP DATA EN 14825:2018 | |
|--|-----------|
| Average Climate / Medium Temperature [55°C] | |
| SCOPon | 3.32 |
| SCOPnet | 3.34 |
| SCOP | 3.32 |
| η [%] | 132.61 |
| Label | A++ |
| Qh [kWh] | 258972.74 |
| Pdesignh [kW] | 416.2 |
| Tbivalent [°C] | -7.00 |

Cooling performance data

Low temperature cooling W 12 / 7°C

| Operating conditions | | Qc | P | EER |
|----------------------|-------------|-------|-------|------|
| A | A35 / W12-7 | 363.8 | 135.9 | 2.68 |
| B | A30 / W12-7 | 373.9 | 121.7 | 3.07 |
| C | A25 / W12-7 | 382.4 | 108.9 | 3.51 |
| D | A20 / W12-7 | 389.3 | 97.3 | 4.00 |

| SEER DATA EN 14825:2018 [W 12 / 7°C] | |
|--|----------|
| SEERon | 3.43 |
| SEER | 3.42 |
| Qc [kWh] | 80127.41 |
| η [%] | 136.91 |

Radiant cooling W 23 / 18°C

| Operating conditions | | Qc | P | EER |
|----------------------|--------------|-------|-------|------|
| A | A35 / W23-18 | 484.3 | 135.9 | 3.56 |
| B | A30 / W23-18 | 497.4 | 112.6 | 4.09 |
| C | A25 / W23-18 | 509.0 | 101.2 | 4.67 |
| D | A20 / W23-18 | 519.1 | 91.0 | 5.34 |

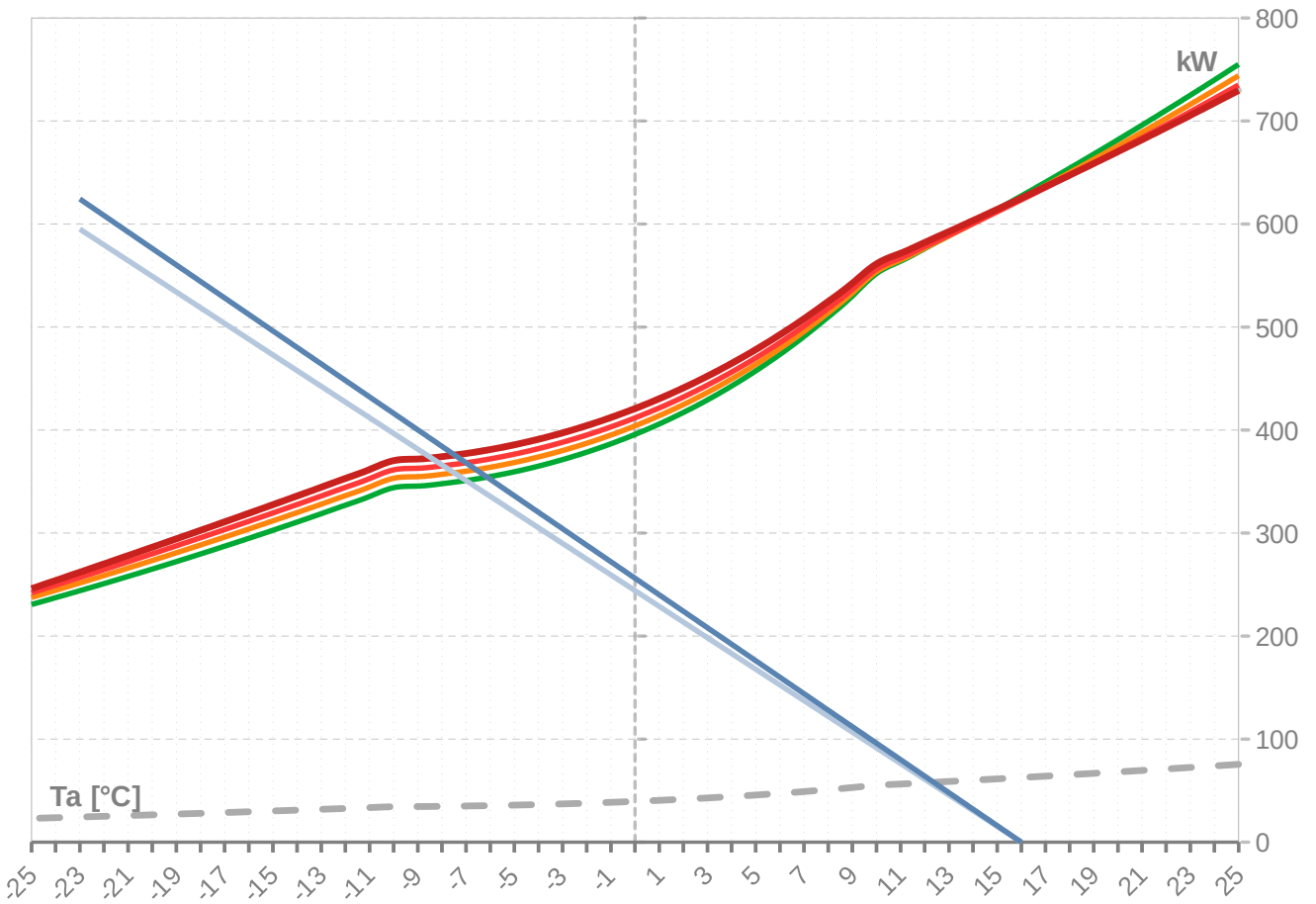
| SEER DATA EN 14825:2018 [W 23 / 18°C] | |
|---|----------|
| SEERon | 4.57 |
| SEER | 4.55 |
| Qc [kWh] | 60178.24 |
| η [%] | 182.20 |

WAMAK AW 500 EVI HeavyDuty 2L5

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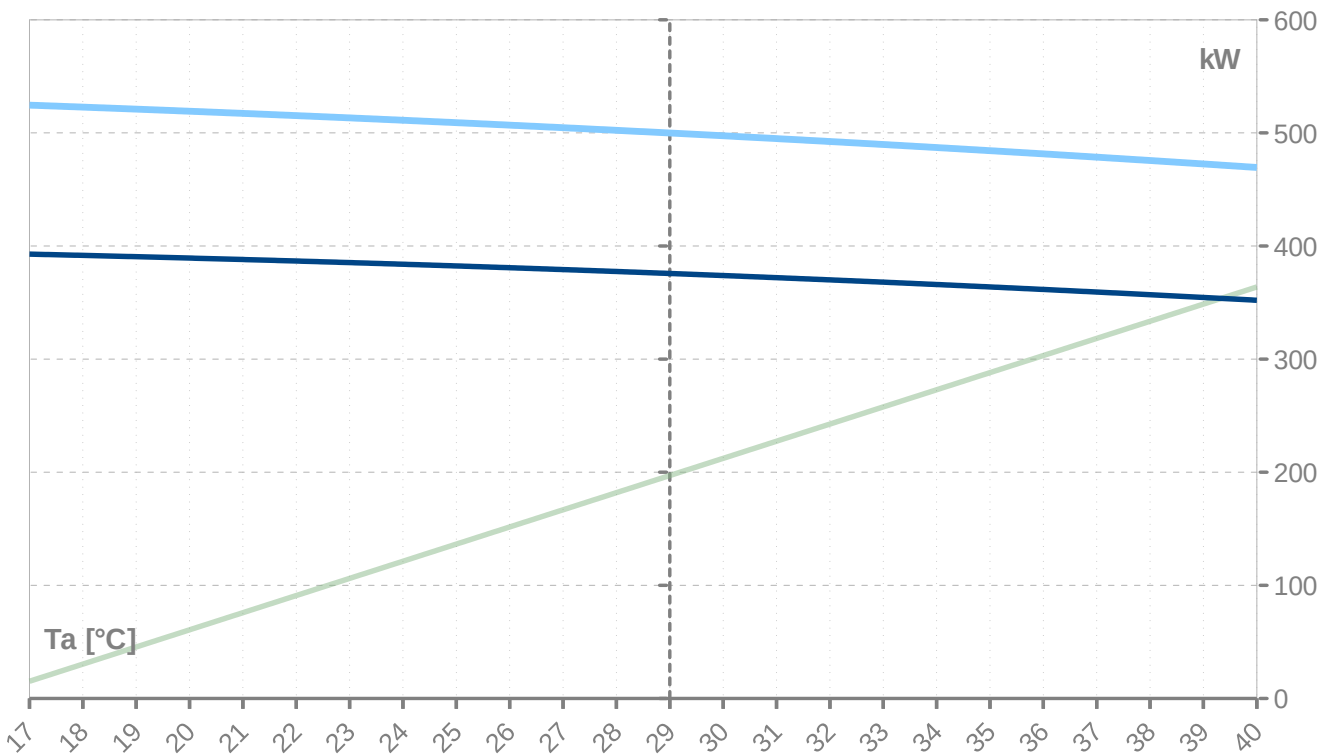
Performance lines - heating

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



Performance lines - cooling

- Pratedc
 — Qc-12/7
 — Qc-23/18



WAMAK AW 500 EVI HeavyDuty 2L5

| 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 | 640.6 | 64.1 | | 113.9 | 10.6 | | 5.62 | 232.7 | 23.3 | |
| 24 | 640.6 | 64.1 | | 113.9 | 10.6 | | 5.62 | 232.7 | 23.3 | |
| 23 | 640.6 | 64.1 | | 113.9 | 10.6 | | 5.62 | 232.7 | 23.3 | |
| 22 | 640.6 | 64.1 | | 113.9 | 10.6 | | 5.62 | 232.7 | 23.3 | |
| 21 | 640.6 | 64.1 | | 113.9 | 10.6 | | 5.62 | 232.7 | 23.3 | |
| 20 | 640.6 | 64.1 | | 113.9 | 10.6 | | 5.62 | 232.7 | 23.3 | |
| 19 | 640.6 | 64.1 | | 113.9 | 10.6 | | 5.62 | 232.7 | 23.3 | |
| 18 | 640.6 | 64.1 | | 113.9 | 10.6 | | 5.62 | 232.7 | 23.3 | |
| 17 | 640.6 | 64.1 | | 113.9 | 10.6 | | 5.62 | 232.7 | 23.3 | |
| 16 | 627.3 | 62.7 | 627.3 | 113.9 | 10.6 | 113.9 | 5.51 | 232.9 | 23.3 | 232.9 |
| 15 | 614.2 | 61.4 | 614.2 | 113.8 | 10.6 | 113.8 | 5.40 | 233.1 | 23.3 | 233.1 |
| 14 | 601.3 | 60.1 | 601.3 | 113.8 | 10.6 | 113.8 | 5.28 | 233.3 | 23.3 | 233.3 |
| 13 | 588.6 | 58.9 | 588.6 | 113.8 | 10.6 | 113.8 | 5.17 | 233.5 | 23.4 | 233.5 |
| 12 | 576.2 | 57.6 | 576.2 | 113.8 | 10.6 | 113.8 | 5.06 | 233.8 | 23.4 | 233.8 |
| 11 | 563.9 | 56.4 | 563.9 | 113.8 | 10.6 | 113.8 | 4.96 | 234.0 | 23.4 | 234.0 |
| 10 | 551.8 | 55.2 | 551.8 | 113.8 | 10.6 | 113.8 | 4.85 | 234.3 | 23.4 | 234.3 |
| 9 | 530.1 | 53.0 | 530.1 | 113.8 | 10.6 | 113.8 | 4.66 | 234.8 | 23.5 | 234.8 |
| 8 | 509.8 | 51.0 | 509.8 | 113.8 | 10.6 | 113.8 | 4.48 | 235.3 | 23.5 | 235.3 |
| 7 | 490.9 | 49.1 | 490.9 | 113.8 | 10.6 | 113.8 | 4.31 | 235.7 | 23.6 | 235.7 |
| 6 | 473.5 | 47.3 | 473.5 | 113.8 | 10.6 | 113.8 | 4.16 | 236.2 | 23.6 | 236.2 |
| 5 | 457.4 | 45.7 | 457.4 | 113.8 | 10.6 | 113.8 | 4.02 | 236.5 | 23.7 | 236.5 |
| 4 | 442.7 | 44.3 | 442.7 | 113.8 | 10.6 | 113.8 | 3.89 | 236.8 | 23.7 | 236.8 |
| 3 | 429.3 | 42.9 | 429.3 | 113.8 | 10.6 | 113.8 | 3.77 | 237.0 | 23.7 | 237.0 |
| 2 | 417.0 | 41.7 | 417.0 | 113.7 | 10.6 | 113.7 | 3.67 | 237.2 | 23.7 | 237.2 |
| 1 | 405.9 | 40.6 | 405.9 | 113.6 | 10.6 | 113.6 | 3.57 | 237.4 | 23.7 | 237.4 |
| 0 | 395.7 | 39.6 | 395.7 | 113.6 | 10.6 | 113.6 | 3.49 | 237.4 | 23.7 | 237.4 |
| -1 | 386.6 | 38.7 | 386.6 | 113.5 | 10.6 | 113.5 | 3.41 | 237.5 | 23.7 | 237.5 |
| -2 | 378.5 | 37.9 | 378.5 | 113.4 | 10.6 | 113.4 | 3.34 | 237.5 | 23.7 | 237.5 |
| -3 | 371.3 | 37.1 | 371.3 | 113.3 | 10.6 | 113.3 | 3.28 | 237.5 | 23.7 | 237.5 |
| -4 | 364.9 | 36.5 | 364.9 | 113.2 | 10.6 | 113.2 | 3.22 | 237.4 | 23.7 | 237.4 |
| -5 | 359.5 | 35.9 | 359.5 | 113.1 | 10.6 | 113.1 | 3.18 | 237.4 | 23.7 | 237.4 |
| -6 | 354.8 | 35.5 | 354.8 | 113.0 | 10.6 | 113.0 | 3.14 | 237.3 | 23.7 | 237.3 |
| -7 | 350.9 | 35.1 | 350.9 | 112.9 | 10.6 | 112.9 | 3.11 | 237.2 | 23.7 | 237.2 |
| -8 | 347.9 | 34.8 | 347.9 | 112.9 | 10.6 | 112.9 | 3.08 | 237.2 | 23.7 | 237.2 |
| -9 | 345.6 | 34.6 | 345.6 | 112.8 | 10.5 | 112.8 | 3.06 | 237.1 | 23.7 | 237.1 |
| -10 | 344.0 | 34.4 | 344.0 | 112.8 | 10.5 | 112.8 | 3.05 | 237.1 | 23.7 | 237.1 |
| -11 | 335.5 | 33.5 | 335.5 | 112.6 | 10.5 | 112.6 | 2.98 | 236.9 | 23.7 | 236.9 |
| -12 | 327.1 | 32.7 | 327.1 | 112.3 | 10.5 | 112.3 | 2.91 | 236.6 | 23.7 | 236.6 |
| -13 | 318.8 | 31.9 | 318.8 | 112.1 | 10.5 | 112.1 | 2.84 | 236.2 | 23.6 | 236.2 |
| -14 | 310.7 | 31.1 | 310.7 | 111.8 | 10.5 | 111.8 | 2.78 | 235.8 | 23.6 | 235.8 |
| -15 | 302.7 | 30.3 | 302.7 | 111.5 | 10.4 | 111.5 | 2.72 | 235.3 | 23.5 | 235.3 |
| -16 | 294.9 | 29.5 | 294.9 | 111.1 | 10.4 | 111.1 | 2.65 | 234.8 | 23.5 | 234.8 |
| -17 | 287.2 | 28.7 | 287.2 | 110.8 | 10.4 | 110.8 | 2.59 | 234.2 | 23.4 | 234.2 |
| -18 | 279.7 | 28.0 | 279.7 | 110.4 | 10.3 | 110.4 | 2.53 | 233.5 | 23.3 | 233.5 |
| -19 | 272.3 | 27.2 | 272.3 | 109.9 | 10.3 | 109.9 | 2.48 | 232.7 | 23.3 | 232.7 |
| -20 | 265.0 | 26.5 | 265.0 | 109.4 | 10.2 | 109.4 | 2.42 | 231.8 | 23.2 | 231.8 |
| -21 | 257.9 | 25.8 | 257.9 | 108.9 | 10.2 | 108.9 | 2.37 | 230.9 | 23.1 | 230.9 |
| -22 | 250.9 | 25.1 | 250.9 | 108.4 | 10.1 | 108.4 | 2.31 | 229.9 | 23.0 | 229.9 |
| -23 | 244.0 | 24.4 | 244.0 | 107.8 | 10.1 | 107.8 | 2.26 | 228.7 | 22.9 | 228.7 |
| -24 | 237.3 | 23.7 | 237.3 | 107.2 | 10.0 | 107.2 | 2.21 | 227.5 | 22.8 | 227.5 |
| -25 | 230.7 | 23.1 | 230.7 | 106.5 | 10.0 | 106.5 | 2.17 | 226.2 | 22.6 | 226.2 |

* attention: operating limits not reflected in performance table

ZHI46K1P-TWD_R410A_10_AW

WAMAK AW 500 EVI HeavyDuty 2L5

| 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 | 744.0 | 74.4 | 744.0 | 141.1 | 13.2 | 141.1 | 5.27 | 265.3 | 26.5 | 265.3 |
| 24 | 729.9 | 73.0 | 729.9 | 141.1 | 13.2 | 141.1 | 5.17 | 265.2 | 26.5 | 265.2 |
| 23 | 716.1 | 71.6 | 716.1 | 141.2 | 13.2 | 141.2 | 5.07 | 265.2 | 26.5 | 265.2 |
| 22 | 702.5 | 70.2 | 702.5 | 141.2 | 13.2 | 141.2 | 4.98 | 265.2 | 26.5 | 265.2 |
| 21 | 689.0 | 68.9 | 689.0 | 141.2 | 13.2 | 141.2 | 4.88 | 265.2 | 26.5 | 265.2 |
| 20 | 675.8 | 67.6 | 675.8 | 141.3 | 13.2 | 141.3 | 4.78 | 265.3 | 26.5 | 265.3 |
| 19 | 662.8 | 66.3 | 662.8 | 141.4 | 13.2 | 141.4 | 4.69 | 265.4 | 26.5 | 265.4 |
| 18 | 649.9 | 65.0 | 649.9 | 141.4 | 13.2 | 141.4 | 4.60 | 265.4 | 26.5 | 265.4 |
| 17 | 637.2 | 63.7 | 637.2 | 141.5 | 13.2 | 141.5 | 4.50 | 265.5 | 26.6 | 265.5 |
| 16 | 624.8 | 62.5 | 624.8 | 141.6 | 13.2 | 141.6 | 4.41 | 265.6 | 26.6 | 265.6 |
| 15 | 612.5 | 61.2 | 612.5 | 141.6 | 13.2 | 141.6 | 4.32 | 265.7 | 26.6 | 265.7 |
| 14 | 600.4 | 60.0 | 600.4 | 141.7 | 13.2 | 141.7 | 4.24 | 265.8 | 26.6 | 265.8 |
| 13 | 588.4 | 58.8 | 588.4 | 141.8 | 13.3 | 141.8 | 4.15 | 266.0 | 26.6 | 266.0 |
| 12 | 576.7 | 57.7 | 576.7 | 141.8 | 13.3 | 141.8 | 4.07 | 266.1 | 26.6 | 266.1 |
| 11 | 565.1 | 56.5 | 565.1 | 141.9 | 13.3 | 141.9 | 3.98 | 266.2 | 26.6 | 266.2 |
| 10 | 553.7 | 55.4 | 553.7 | 142.0 | 13.3 | 142.0 | 3.90 | 266.3 | 26.6 | 266.3 |
| 9 | 533.0 | 53.3 | 533.0 | 142.1 | 13.3 | 142.1 | 3.75 | 266.4 | 26.6 | 266.4 |
| 8 | 513.8 | 51.4 | 513.8 | 142.1 | 13.3 | 142.1 | 3.62 | 266.5 | 26.7 | 266.5 |
| 7 | 495.7 | 49.6 | 495.7 | 142.1 | 13.3 | 142.1 | 3.49 | 266.5 | 26.7 | 266.5 |
| 6 | 479.1 | 47.9 | 479.1 | 142.1 | 13.3 | 142.1 | 3.37 | 266.5 | 26.7 | 266.5 |
| 5 | 463.7 | 46.4 | 463.7 | 142.1 | 13.3 | 142.1 | 3.26 | 266.4 | 26.6 | 266.4 |
| 4 | 449.6 | 45.0 | 449.6 | 142.0 | 13.3 | 142.0 | 3.17 | 266.2 | 26.6 | 266.2 |
| 3 | 436.6 | 43.7 | 436.6 | 141.9 | 13.3 | 141.9 | 3.08 | 266.0 | 26.6 | 266.0 |
| 2 | 424.7 | 42.5 | 424.7 | 141.7 | 13.3 | 141.7 | 3.00 | 265.7 | 26.6 | 265.7 |
| 1 | 413.9 | 41.4 | 413.9 | 141.6 | 13.2 | 141.6 | 2.92 | 265.4 | 26.5 | 265.4 |
| 0 | 404.0 | 40.4 | 404.0 | 141.4 | 13.2 | 141.4 | 2.86 | 265.0 | 26.5 | 265.0 |
| -1 | 395.1 | 39.5 | 395.1 | 141.2 | 13.2 | 141.2 | 2.80 | 264.7 | 26.5 | 264.7 |
| -2 | 387.2 | 38.7 | 387.2 | 141.0 | 13.2 | 141.0 | 2.74 | 264.3 | 26.4 | 264.3 |
| -3 | 380.1 | 38.0 | 380.1 | 140.9 | 13.2 | 140.9 | 2.70 | 263.9 | 26.4 | 263.9 |
| -4 | 373.8 | 37.4 | 373.8 | 140.7 | 13.2 | 140.7 | 2.66 | 263.5 | 26.4 | 263.5 |
| -5 | 368.4 | 36.8 | 368.4 | 140.5 | 13.1 | 140.5 | 2.62 | 263.1 | 26.3 | 263.1 |
| -6 | 363.8 | 36.4 | 363.8 | 140.4 | 13.1 | 140.4 | 2.59 | 262.8 | 26.3 | 262.8 |
| -7 | 360.0 | 36.0 | 360.0 | 140.2 | 13.1 | 140.2 | 2.57 | 262.5 | 26.3 | 262.5 |
| -8 | 357.0 | 35.7 | 357.0 | 140.1 | 13.1 | 140.1 | 2.55 | 262.3 | 26.2 | 262.3 |
| -9 | 354.7 | 35.5 | 354.7 | 140.0 | 13.1 | 140.0 | 2.53 | 262.1 | 26.2 | 262.1 |
| -10 | 353.2 | 35.3 | 353.2 | 140.0 | 13.1 | 140.0 | 2.52 | 262.0 | 26.2 | 262.0 |
| -11 | 344.7 | 34.5 | 344.7 | 139.6 | 13.1 | 139.6 | 2.47 | 261.2 | 26.1 | 261.2 |
| -12 | 336.3 | 33.6 | 336.3 | 139.2 | 13.0 | 139.2 | 2.42 | 260.4 | 26.0 | 260.4 |
| -13 | 328.0 | 32.8 | 328.0 | 138.8 | 13.0 | 138.8 | 2.36 | 259.5 | 25.9 | 259.5 |
| -14 | 319.9 | 32.0 | 319.9 | 138.3 | 12.9 | 138.3 | 2.31 | 258.5 | 25.8 | 258.5 |
| -15 | 311.8 | 31.2 | 311.8 | 137.8 | 12.9 | 137.8 | 2.26 | 257.4 | 25.7 | 257.4 |
| -16 | 303.9 | 30.4 | 303.9 | 137.2 | 12.8 | 137.2 | 2.21 | 256.2 | 25.6 | 256.2 |
| -17 | 296.1 | 29.6 | 296.1 | 136.7 | 12.8 | 136.7 | 2.17 | 254.9 | 25.5 | 254.9 |
| -18 | 288.4 | 28.8 | 288.4 | 136.0 | 12.7 | 136.0 | 2.12 | 253.6 | 25.4 | 253.6 |
| -19 | 280.8 | 28.1 | 280.8 | 135.3 | 12.7 | 135.3 | 2.07 | 252.1 | 25.2 | 252.1 |
| -20 | 273.4 | 27.3 | 273.4 | 134.6 | 12.6 | 134.6 | 2.03 | 250.6 | 25.1 | 250.6 |
| -21 | 266.0 | 26.6 | 266.0 | 133.9 | 12.5 | 133.9 | 1.99 | 248.9 | 24.9 | 248.9 |
| -22 | 258.7 | 25.9 | 258.7 | 133.1 | 12.4 | 133.1 | 1.94 | 247.2 | 24.7 | 247.2 |
| -23 | 251.5 | 25.2 | 251.5 | 132.2 | 12.4 | 132.2 | 1.90 | 245.3 | 24.5 | 245.3 |
| -24 | 244.5 | 24.4 | 244.5 | 131.3 | 12.3 | 131.3 | 1.86 | 243.3 | 24.3 | 243.3 |
| -25 | 237.5 | 23.7 | 237.5 | 130.3 | 12.2 | 130.3 | 1.82 | 241.2 | 24.1 | 241.2 |

* attention: operating limits not reflected in performance table

WAMAK AW 500 EVI HeavyDuty 2L5

| 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 | 735.0 | 73.5 | 735.0 | 177.2 | 16.6 | 177.2 | 4.15 | 306.5 | 30.7 | 306.5 |
| 24 | 721.9 | 72.2 | 721.9 | 177.4 | 16.6 | 177.4 | 4.07 | 306.6 | 30.7 | 306.6 |
| 23 | 709.0 | 70.9 | 709.0 | 177.5 | 16.6 | 177.5 | 3.99 | 306.7 | 30.7 | 306.7 |
| 22 | 696.3 | 69.6 | 696.3 | 177.6 | 16.6 | 177.6 | 3.92 | 306.8 | 30.7 | 306.8 |
| 21 | 683.7 | 68.4 | 683.7 | 177.7 | 16.6 | 177.7 | 3.85 | 306.9 | 30.7 | 306.9 |
| 20 | 671.3 | 67.1 | 671.3 | 177.8 | 16.6 | 177.8 | 3.77 | 307.0 | 30.7 | 307.0 |
| 19 | 659.1 | 65.9 | 659.1 | 178.0 | 16.6 | 178.0 | 3.70 | 307.1 | 30.7 | 307.1 |
| 18 | 647.1 | 64.7 | 647.1 | 178.1 | 16.6 | 178.1 | 3.63 | 307.2 | 30.7 | 307.2 |
| 17 | 635.2 | 63.5 | 635.2 | 178.2 | 16.7 | 178.2 | 3.56 | 307.3 | 30.7 | 307.3 |
| 16 | 623.4 | 62.3 | 623.4 | 178.3 | 16.7 | 178.3 | 3.50 | 307.4 | 30.7 | 307.4 |
| 15 | 611.9 | 61.2 | 611.9 | 178.4 | 16.7 | 178.4 | 3.43 | 307.5 | 30.8 | 307.5 |
| 14 | 600.4 | 60.0 | 600.4 | 178.4 | 16.7 | 178.4 | 3.36 | 307.6 | 30.8 | 307.6 |
| 13 | 589.2 | 58.9 | 589.2 | 178.5 | 16.7 | 178.5 | 3.30 | 307.7 | 30.8 | 307.7 |
| 12 | 578.0 | 57.8 | 578.0 | 178.6 | 16.7 | 178.6 | 3.24 | 307.7 | 30.8 | 307.7 |
| 11 | 567.1 | 56.7 | 567.1 | 178.6 | 16.7 | 178.6 | 3.17 | 307.7 | 30.8 | 307.7 |
| 10 | 556.2 | 55.6 | 556.2 | 178.6 | 16.7 | 178.6 | 3.11 | 307.7 | 30.8 | 307.7 |
| 9 | 536.6 | 53.7 | 536.6 | 178.6 | 16.7 | 178.6 | 3.00 | 307.6 | 30.8 | 307.6 |
| 8 | 518.2 | 51.8 | 518.2 | 178.6 | 16.7 | 178.6 | 2.90 | 307.5 | 30.7 | 307.5 |
| 7 | 500.9 | 50.1 | 500.9 | 178.5 | 16.7 | 178.5 | 2.81 | 307.2 | 30.7 | 307.2 |
| 6 | 484.9 | 48.5 | 484.9 | 178.3 | 16.7 | 178.3 | 2.72 | 306.8 | 30.7 | 306.8 |
| 5 | 470.0 | 47.0 | 470.0 | 178.1 | 16.7 | 178.1 | 2.64 | 306.4 | 30.6 | 306.4 |
| 4 | 456.3 | 45.6 | 456.3 | 177.9 | 16.6 | 177.9 | 2.57 | 305.8 | 30.6 | 305.8 |
| 3 | 443.7 | 44.4 | 443.7 | 177.6 | 16.6 | 177.6 | 2.50 | 305.2 | 30.5 | 305.2 |
| 2 | 432.1 | 43.2 | 432.1 | 177.2 | 16.6 | 177.2 | 2.44 | 304.6 | 30.5 | 304.6 |
| 1 | 421.5 | 42.1 | 421.5 | 176.9 | 16.5 | 176.9 | 2.38 | 303.9 | 30.4 | 303.9 |
| 0 | 411.8 | 41.2 | 411.8 | 176.6 | 16.5 | 176.6 | 2.33 | 303.2 | 30.3 | 303.2 |
| -1 | 403.0 | 40.3 | 403.0 | 176.2 | 16.5 | 176.2 | 2.29 | 302.4 | 30.2 | 302.4 |
| -2 | 395.2 | 39.5 | 395.2 | 175.8 | 16.4 | 175.8 | 2.25 | 301.7 | 30.2 | 301.7 |
| -3 | 388.1 | 38.8 | 388.1 | 175.5 | 16.4 | 175.5 | 2.21 | 301.0 | 30.1 | 301.0 |
| -4 | 381.9 | 38.2 | 381.9 | 175.2 | 16.4 | 175.2 | 2.18 | 300.3 | 30.0 | 300.3 |
| -5 | 376.6 | 37.7 | 376.6 | 174.9 | 16.3 | 174.9 | 2.15 | 299.7 | 30.0 | 299.7 |
| -6 | 372.0 | 37.2 | 372.0 | 174.6 | 16.3 | 174.6 | 2.13 | 299.2 | 29.9 | 299.2 |
| -7 | 368.2 | 36.8 | 368.2 | 174.4 | 16.3 | 174.4 | 2.11 | 298.7 | 29.9 | 298.7 |
| -8 | 365.1 | 36.5 | 365.1 | 174.2 | 16.3 | 174.2 | 2.10 | 298.3 | 29.8 | 298.3 |
| -9 | 362.9 | 36.3 | 362.9 | 174.0 | 16.3 | 174.0 | 2.09 | 298.0 | 29.8 | 298.0 |
| -10 | 361.3 | 36.1 | 361.3 | 173.9 | 16.3 | 173.9 | 2.08 | 297.8 | 29.8 | 297.8 |
| -11 | 352.8 | 35.3 | 352.8 | 173.3 | 16.2 | 173.3 | 2.04 | 296.5 | 29.7 | 296.5 |
| -12 | 344.3 | 34.4 | 344.3 | 172.7 | 16.1 | 172.7 | 1.99 | 295.2 | 29.5 | 295.2 |
| -13 | 336.0 | 33.6 | 336.0 | 172.0 | 16.1 | 172.0 | 1.95 | 293.8 | 29.4 | 293.8 |
| -14 | 327.7 | 32.8 | 327.7 | 171.2 | 16.0 | 171.2 | 1.91 | 292.3 | 29.2 | 292.3 |
| -15 | 319.5 | 31.9 | 319.5 | 170.5 | 15.9 | 170.5 | 1.87 | 290.7 | 29.1 | 290.7 |
| -16 | 311.4 | 31.1 | 311.4 | 169.6 | 15.9 | 169.6 | 1.84 | 288.9 | 28.9 | 288.9 |
| -17 | 303.4 | 30.3 | 303.4 | 168.7 | 15.8 | 168.7 | 1.80 | 287.1 | 28.7 | 287.1 |
| -18 | 295.5 | 29.5 | 295.5 | 167.8 | 15.7 | 167.8 | 1.76 | 285.2 | 28.5 | 285.2 |
| -19 | 287.6 | 28.8 | 287.6 | 166.8 | 15.6 | 166.8 | 1.72 | 283.1 | 28.3 | 283.1 |
| -20 | 279.8 | 28.0 | 279.8 | 165.7 | 15.5 | 165.7 | 1.69 | 280.9 | 28.1 | 280.9 |
| -21 | 272.1 | 27.2 | 272.1 | 164.6 | 15.4 | 164.6 | 1.65 | 278.7 | 27.9 | 278.7 |
| -22 | 264.5 | 26.4 | 264.5 | 163.5 | 15.3 | 163.5 | 1.62 | 276.2 | 27.6 | 276.2 |
| -23 | 256.9 | 25.7 | 256.9 | 162.2 | 15.2 | 162.2 | 1.58 | 273.7 | 27.4 | 273.7 |
| -24 | 249.4 | 24.9 | 249.4 | 161.0 | 15.0 | 161.0 | 1.55 | 271.0 | 27.1 | 271.0 |
| -25 | 242.0 | 24.2 | 242.0 | 159.6 | 14.9 | 159.6 | 1.52 | 268.2 | 26.8 | 268.2 |

* attention: operating limits not reflected in performance table

WAMAK AW 500 EVI HeavyDuty 2L5

| 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 | 729.7 | 73.0 | 729.7 | 226.0 | 21.1 | 226.0 | 3.23 | 361.4 | 36.1 | 361.4 |
| 24 | 717.5 | 71.8 | 717.5 | 226.1 | 21.1 | 226.1 | 3.17 | 361.7 | 36.2 | 361.7 |
| 23 | 705.5 | 70.5 | 705.5 | 226.2 | 21.2 | 226.2 | 3.12 | 361.9 | 36.2 | 361.9 |
| 22 | 693.6 | 69.4 | 693.6 | 226.4 | 21.2 | 226.4 | 3.06 | 362.2 | 36.2 | 362.2 |
| 21 | 681.8 | 68.2 | 681.8 | 226.5 | 21.2 | 226.5 | 3.01 | 362.4 | 36.2 | 362.4 |
| 20 | 670.2 | 67.0 | 670.2 | 226.6 | 21.2 | 226.6 | 2.96 | 362.7 | 36.3 | 362.7 |
| 19 | 658.7 | 65.9 | 658.7 | 226.7 | 21.2 | 226.7 | 2.91 | 362.9 | 36.3 | 362.9 |
| 18 | 647.4 | 64.7 | 647.4 | 226.7 | 21.2 | 226.7 | 2.86 | 363.1 | 36.3 | 363.1 |
| 17 | 636.2 | 63.6 | 636.2 | 226.8 | 21.2 | 226.8 | 2.81 | 363.3 | 36.3 | 363.3 |
| 16 | 625.1 | 62.5 | 625.1 | 226.8 | 21.2 | 226.8 | 2.76 | 363.5 | 36.3 | 363.5 |
| 15 | 614.2 | 61.4 | 614.2 | 226.9 | 21.2 | 226.9 | 2.71 | 363.6 | 36.4 | 363.6 |
| 14 | 603.4 | 60.3 | 603.4 | 226.9 | 21.2 | 226.9 | 2.66 | 363.7 | 36.4 | 363.7 |
| 13 | 592.7 | 59.3 | 592.7 | 226.8 | 21.2 | 226.8 | 2.61 | 363.8 | 36.4 | 363.8 |
| 12 | 582.1 | 58.2 | 582.1 | 226.8 | 21.2 | 226.8 | 2.57 | 363.8 | 36.4 | 363.8 |
| 11 | 571.6 | 57.2 | 571.6 | 226.7 | 21.2 | 226.7 | 2.52 | 363.9 | 36.4 | 363.9 |
| 10 | 561.3 | 56.1 | 561.3 | 226.7 | 21.2 | 226.7 | 2.48 | 363.8 | 36.4 | 363.8 |
| 9 | 542.5 | 54.2 | 542.5 | 226.4 | 21.2 | 226.4 | 2.40 | 363.6 | 36.4 | 363.6 |
| 8 | 524.8 | 52.5 | 524.8 | 226.1 | 21.1 | 226.1 | 2.32 | 363.3 | 36.3 | 363.3 |
| 7 | 508.1 | 50.8 | 508.1 | 225.7 | 21.1 | 225.7 | 2.25 | 362.9 | 36.3 | 362.9 |
| 6 | 492.6 | 49.3 | 492.6 | 225.3 | 21.1 | 225.3 | 2.19 | 362.3 | 36.2 | 362.3 |
| 5 | 478.1 | 47.8 | 478.1 | 224.8 | 21.0 | 224.8 | 2.13 | 361.6 | 36.2 | 361.6 |
| 4 | 464.7 | 46.5 | 464.7 | 224.2 | 21.0 | 224.2 | 2.07 | 360.7 | 36.1 | 360.7 |
| 3 | 452.3 | 45.2 | 452.3 | 223.7 | 20.9 | 223.7 | 2.02 | 359.9 | 36.0 | 359.9 |
| 2 | 440.9 | 44.1 | 440.9 | 223.1 | 20.9 | 223.1 | 1.98 | 358.9 | 35.9 | 358.9 |
| 1 | 430.4 | 43.0 | 430.4 | 222.4 | 20.8 | 222.4 | 1.94 | 357.9 | 35.8 | 357.9 |
| 0 | 420.9 | 42.1 | 420.9 | 221.8 | 20.7 | 221.8 | 1.90 | 356.9 | 35.7 | 356.9 |
| -1 | 412.1 | 41.2 | 412.1 | 221.2 | 20.7 | 221.2 | 1.86 | 355.9 | 35.6 | 355.9 |
| -2 | 404.3 | 40.4 | 404.3 | 220.6 | 20.6 | 220.6 | 1.83 | 354.9 | 35.5 | 354.9 |
| -3 | 397.3 | 39.7 | 397.3 | 220.0 | 20.6 | 220.0 | 1.81 | 353.9 | 35.4 | 353.9 |
| -4 | 391.1 | 39.1 | 391.1 | 219.5 | 20.5 | 219.5 | 1.78 | 353.0 | 35.3 | 353.0 |
| -5 | 385.7 | 38.6 | 385.7 | 219.0 | 20.5 | 219.0 | 1.76 | 352.2 | 35.2 | 352.2 |
| -6 | 381.0 | 38.1 | 381.0 | 218.6 | 20.4 | 218.6 | 1.74 | 351.5 | 35.1 | 351.5 |
| -7 | 377.2 | 37.7 | 377.2 | 218.2 | 20.4 | 218.2 | 1.73 | 350.8 | 35.1 | 350.8 |
| -8 | 374.1 | 37.4 | 374.1 | 217.9 | 20.4 | 217.9 | 1.72 | 350.3 | 35.0 | 350.3 |
| -9 | 371.8 | 37.2 | 371.8 | 217.7 | 20.3 | 217.7 | 1.71 | 349.9 | 35.0 | 349.9 |
| -10 | 370.3 | 37.0 | 370.3 | 217.5 | 20.3 | 217.5 | 1.70 | 349.6 | 35.0 | 349.6 |
| -11 | 361.6 | 36.2 | 361.6 | 216.6 | 20.2 | 216.6 | 1.67 | 348.0 | 34.8 | 348.0 |
| -12 | 353.0 | 35.3 | 353.0 | 215.6 | 20.2 | 215.6 | 1.64 | 346.2 | 34.6 | 346.2 |
| -13 | 344.5 | 34.4 | 344.5 | 214.6 | 20.1 | 214.6 | 1.61 | 344.4 | 34.4 | 344.4 |
| -14 | 336.0 | 33.6 | 336.0 | 213.5 | 20.0 | 213.5 | 1.57 | 342.4 | 34.2 | 342.4 |
| -15 | 327.6 | 32.8 | 327.6 | 212.3 | 19.8 | 212.3 | 1.54 | 340.3 | 34.0 | 340.3 |
| -16 | | | | | | | | | | |
| -17 | | | | | | | | | | |
| -18 | | | | | | | | | | |
| -19 | | | | | | | | | | |
| -20 | | | | | | | | | | |
| -21 | | | | | | | | | | |
| -22 | | | | | | | | | | |
| -23 | | | | | | | | | | |
| -24 | | | | | | | | | | |
| -25 | | | | | | | | | | |

* attention: operating limits not reflected in performance table

WAMAK AW 500 EVI HeavyDuty 2L5

| 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 | 352.0 | 352.0 | 352.0 | 152.0 | 142.1 | 152.0 | 2.32 | 277.4 | 277.4 | 277.4 |
| 39 | 354.5 | 354.5 | 354.5 | 148.7 | 139.0 | 148.7 | 2.38 | 273.7 | 273.7 | 273.7 |
| 38 | 357.0 | 357.0 | 357.0 | 145.4 | 135.9 | 145.4 | 2.46 | 270.0 | 270.0 | 270.0 |
| 37 | 359.3 | 359.3 | 359.3 | 142.1 | 132.9 | 142.1 | 2.53 | 266.5 | 266.5 | 266.5 |
| 36 | 361.6 | 361.6 | 361.6 | 139.0 | 129.9 | 139.0 | 2.60 | 263.1 | 263.1 | 263.1 |
| 35 | 363.8 | 363.8 | 363.8 | 135.9 | 127.1 | 135.9 | 2.68 | 259.8 | 259.8 | 259.8 |
| 34 | 366.0 | 366.0 | 366.0 | 132.9 | 124.3 | 132.9 | 2.75 | 256.6 | 256.6 | 256.6 |
| 33 | 368.0 | 368.0 | 368.0 | 130.0 | 121.5 | 130.0 | 2.83 | 253.4 | 253.4 | 253.4 |
| 32 | 370.1 | 370.1 | 370.1 | 127.2 | 118.9 | 127.2 | 2.91 | 250.3 | 250.3 | 250.3 |
| 31 | 372.0 | 372.0 | 372.0 | 124.4 | 116.3 | 124.4 | 2.99 | 247.3 | 247.3 | 247.3 |
| 30 | 373.9 | 373.9 | 373.9 | 121.7 | 113.7 | 121.7 | 3.07 | 244.4 | 244.4 | 244.4 |
| 29 | 375.7 | 375.7 | 375.7 | 119.0 | 111.2 | 119.0 | 3.16 | 241.6 | 241.6 | 241.6 |
| 28 | 377.5 | 377.5 | 377.5 | 116.4 | 108.8 | 116.4 | 3.24 | 238.7 | 238.7 | 238.7 |
| 27 | 379.2 | 379.2 | 379.2 | 113.8 | 106.4 | 113.8 | 3.33 | 236.0 | 236.0 | 236.0 |
| 26 | 380.8 | 380.8 | 380.8 | 111.3 | 104.1 | 111.3 | 3.42 | 233.3 | 233.3 | 233.3 |
| 25 | 382.4 | 382.4 | 382.4 | 108.9 | 101.8 | 108.9 | 3.51 | 230.6 | 230.6 | 230.6 |
| 24 | 383.9 | 383.9 | 383.9 | 106.5 | 99.6 | 106.5 | 3.60 | 228.0 | 228.0 | 228.0 |
| 23 | 385.3 | 385.3 | 385.3 | 104.1 | 97.3 | 104.1 | 3.70 | 225.4 | 225.4 | 225.4 |
| 22 | 386.7 | 386.7 | 386.7 | 101.8 | 95.2 | 101.8 | 3.80 | 222.8 | 222.8 | 222.8 |
| 21 | 388.1 | 388.1 | 388.1 | 99.5 | 93.0 | 99.5 | 3.90 | 220.3 | 220.3 | 220.3 |
| 20 | 389.3 | 389.3 | 389.3 | 97.3 | 90.9 | 97.3 | 4.00 | 217.8 | 217.8 | 217.8 |
| 19 | 390.6 | 390.6 | 390.6 | 95.1 | 88.9 | 95.1 | 4.11 | 215.3 | 215.3 | 215.3 |
| 18 | 391.7 | 391.7 | 391.7 | 92.9 | 86.8 | 92.9 | 4.22 | 212.7 | 212.7 | 212.7 |
| 17 | 392.8 | 392.8 | 392.8 | 90.7 | 84.8 | 90.7 | 4.33 | 210.2 | 210.2 | 210.2 |

| 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 | 469.4 | 469.4 | 469.4 | 152.0 | 142.1 | 152.0 | 3.09 | 277.1 | 277.1 | 277.1 |
| 39 | 472.5 | 472.5 | 472.5 | 148.7 | 139.0 | 148.7 | 3.18 | 273.3 | 273.3 | 273.3 |
| 38 | 475.6 | 475.6 | 475.6 | 145.4 | 135.9 | 145.4 | 3.27 | 269.5 | 269.5 | 269.5 |
| 37 | 478.5 | 478.5 | 478.5 | 142.1 | 132.9 | 142.1 | 3.37 | 265.8 | 265.8 | 265.8 |
| 36 | 481.4 | 481.4 | 481.4 | 139.0 | 129.9 | 139.0 | 3.46 | 262.2 | 262.2 | 262.2 |
| 35 | 484.3 | 484.3 | 484.3 | 135.9 | 127.1 | 135.9 | 3.56 | 258.7 | 258.7 | 258.7 |
| 34 | 487.0 | 487.0 | 487.0 | 132.9 | 124.3 | 132.9 | 3.66 | 255.3 | 255.3 | 255.3 |
| 33 | 489.7 | 489.7 | 489.7 | 130.0 | 121.5 | 130.0 | 3.77 | 252.0 | 252.0 | 252.0 |
| 32 | 492.4 | 492.4 | 492.4 | 127.2 | 118.9 | 127.2 | 3.87 | 248.7 | 248.7 | 248.7 |
| 31 | 494.9 | 494.9 | 494.9 | 124.4 | 116.3 | 124.4 | 3.98 | 245.5 | 245.5 | 245.5 |
| 30 | 497.4 | 497.4 | 497.4 | 121.7 | 113.7 | 121.7 | 4.09 | 242.3 | 242.3 | 242.3 |
| 29 | 499.9 | 499.9 | 499.9 | 119.0 | 111.2 | 119.0 | 4.20 | 239.3 | 239.3 | 239.3 |
| 28 | 502.3 | 502.3 | 502.3 | 116.4 | 108.8 | 116.4 | 4.32 | 236.2 | 236.2 | 236.2 |
| 27 | 504.6 | 504.6 | 504.6 | 113.8 | 106.4 | 113.8 | 4.43 | 233.2 | 233.2 | 233.2 |
| 26 | 506.8 | 506.8 | 506.8 | 111.3 | 104.1 | 111.3 | 4.55 | 230.3 | 230.3 | 230.3 |
| 25 | 509.0 | 509.0 | 509.0 | 108.9 | 101.8 | 108.9 | 4.67 | 227.4 | 227.4 | 227.4 |
| 24 | 511.2 | 511.2 | 511.2 | 106.5 | 99.6 | 106.5 | 4.80 | 224.5 | 224.5 | 224.5 |
| 23 | 513.3 | 513.3 | 513.3 | 104.1 | 97.3 | 104.1 | 4.93 | 221.6 | 221.6 | 221.6 |
| 22 | 515.3 | 515.3 | 515.3 | 101.8 | 95.2 | 101.8 | 5.06 | 218.8 | 218.8 | 218.8 |
| 21 | 517.2 | 517.2 | 517.2 | 99.5 | 93.0 | 99.5 | 5.20 | 216.0 | 216.0 | 216.0 |
| 20 | 519.1 | 519.1 | 519.1 | 97.3 | 90.9 | 97.3 | 5.34 | 213.2 | 213.2 | 213.2 |
| 19 | 521.0 | 521.0 | 521.0 | 95.1 | 88.9 | 95.1 | 5.48 | 210.3 | 210.3 | 210.3 |
| 18 | 522.8 | 522.8 | 522.8 | 92.9 | 86.8 | 92.9 | 5.63 | 207.5 | 207.5 | 207.5 |
| 17 | 524.5 | 524.5 | 524.5 | 90.7 | 84.8 | 90.7 | 5.78 | 204.7 | 204.7 | 204.7 |

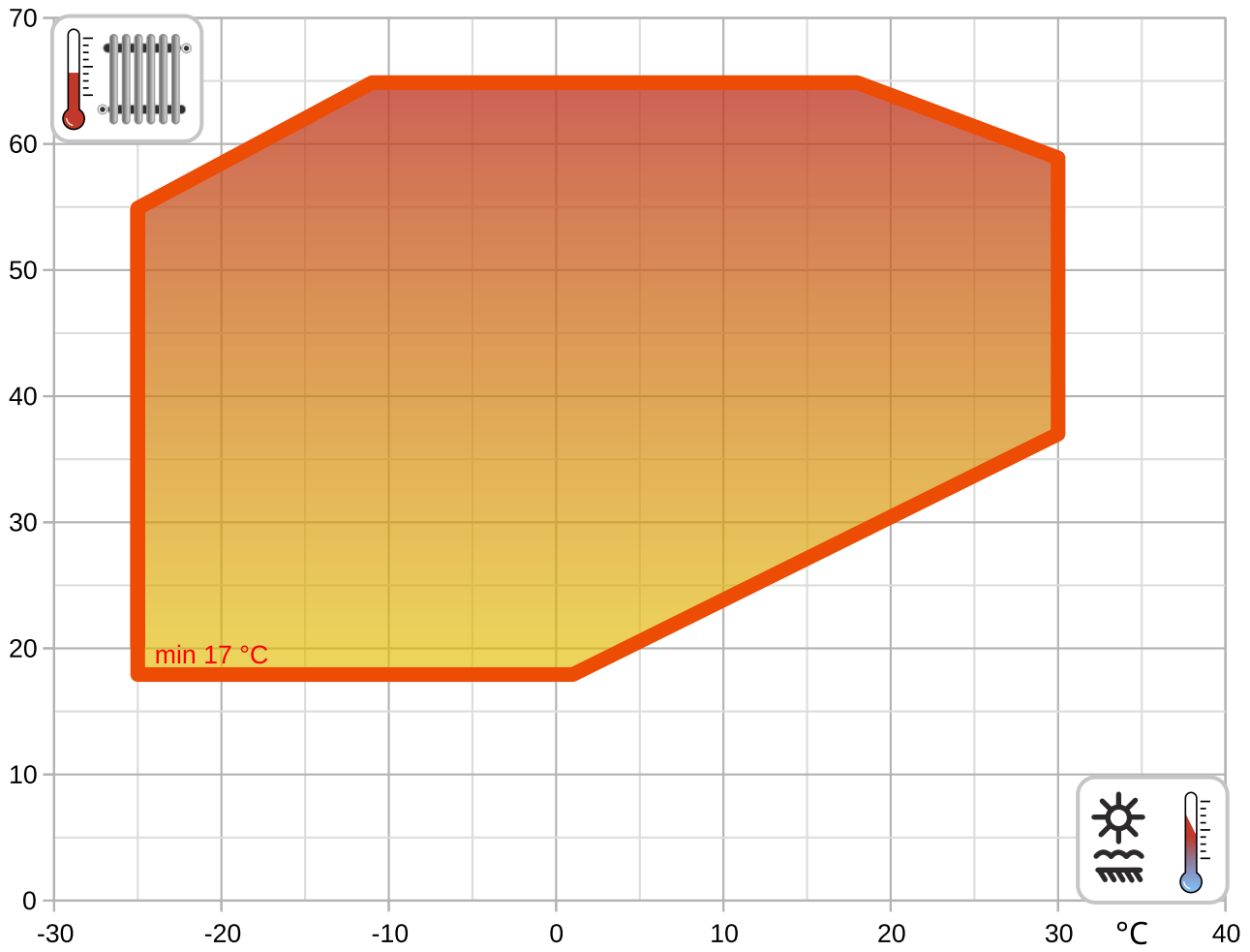
* attention: operating limits not reflected in performance table

LEGENDE:

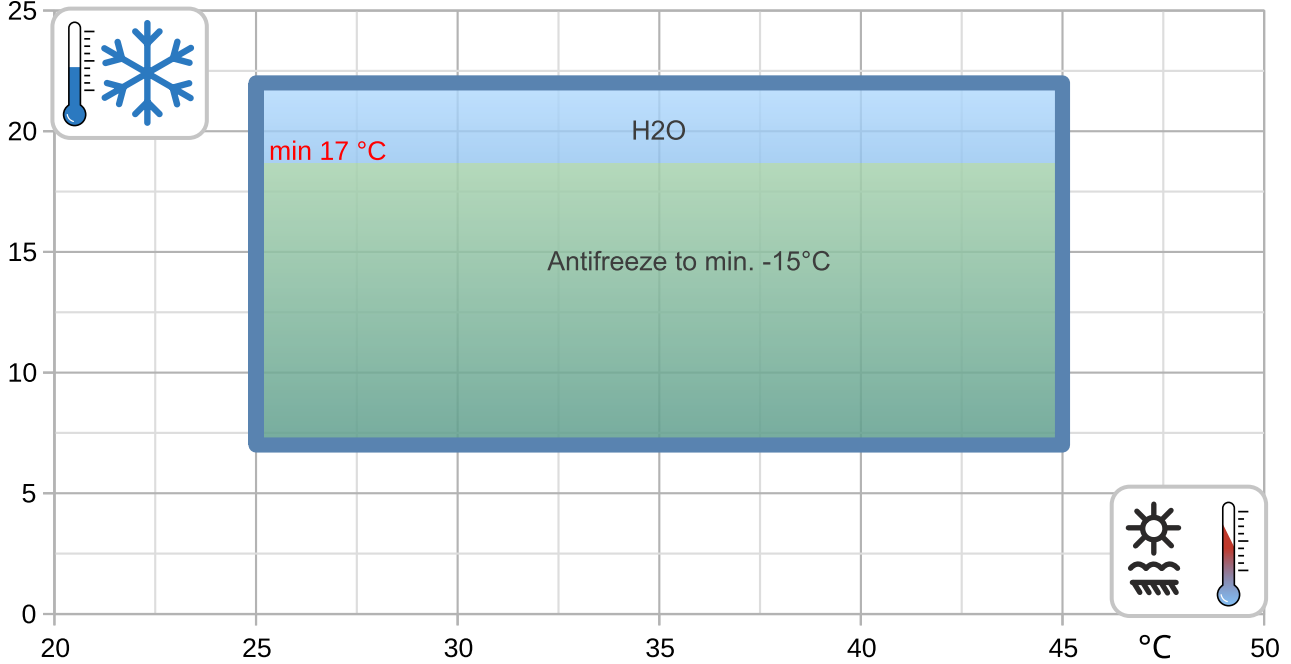
Ts-IN: Temperature renewable source - inlet [°C]
Th-OU: Temperature heating - outlet (flow) [°C]
Tc-OU: Temperature cooling - outlet (flow) [°C]
Qh nom: Heating capacity nominal
Qh min: Heating capacity minimal
Qh max: Heating capacity maximal
Pin nom: Power input at nominal heating capacity
Pin min: Power input at minimal heating capacity
Pin max: Power input at maximal heating capacity
COP nom: coefficient of performance at nominal heating capacity
Qc nom: cooling / heat extraction capacity at nominal heating capacity
Qc min: cooling / heat extraction at minimal heating capacity
Qc max: cooling / heat extraction at maximal heating capacity
I nom: Current at nominal heating capacity
EER: energy efficiency ratio at nominal cooling capacity

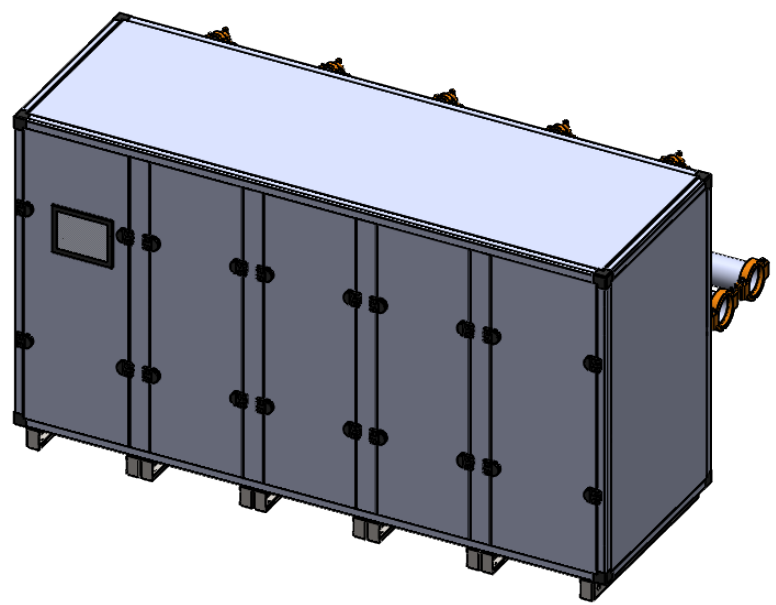
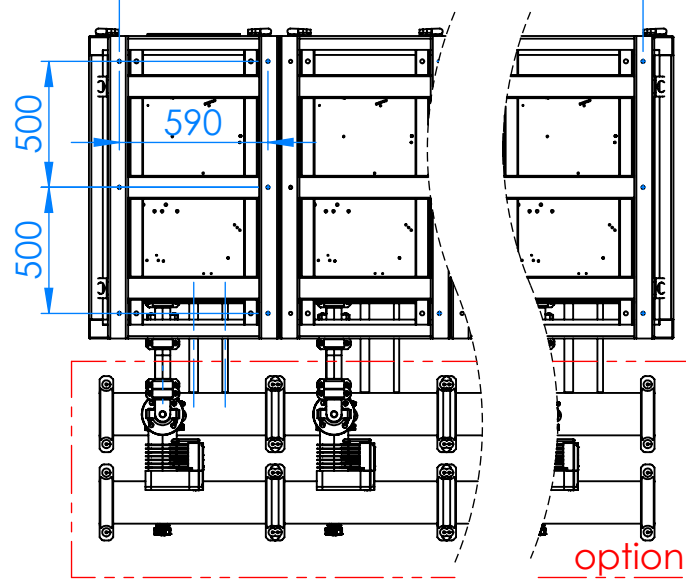
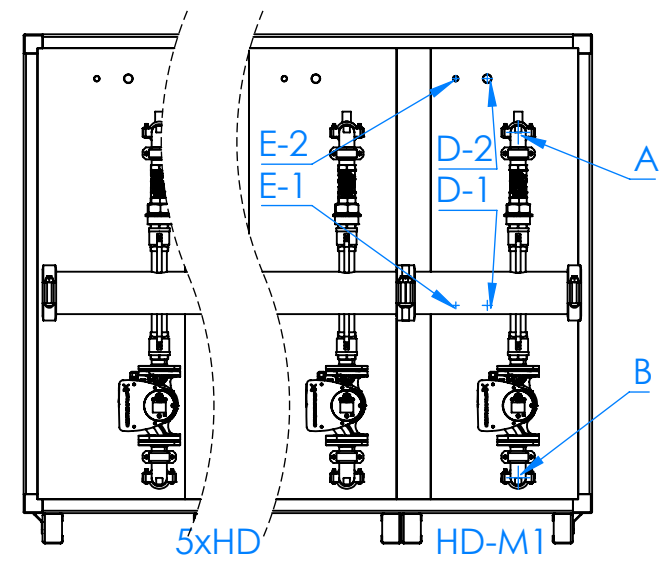
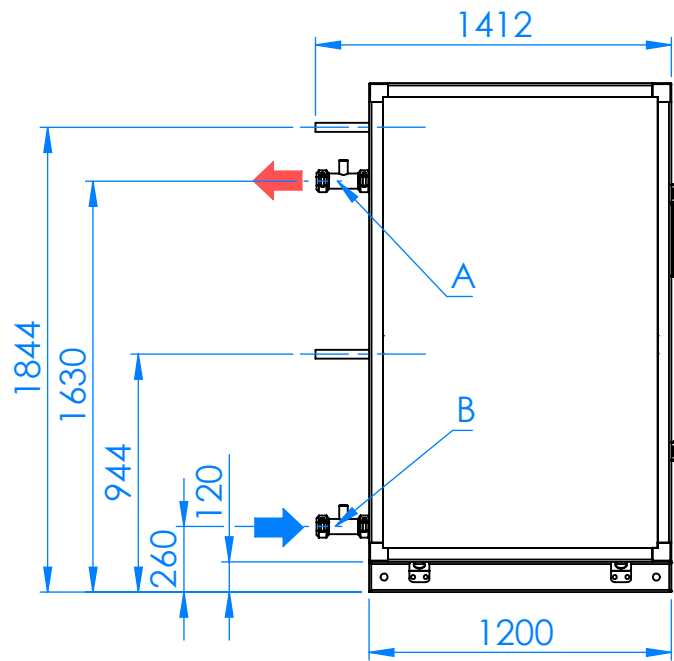
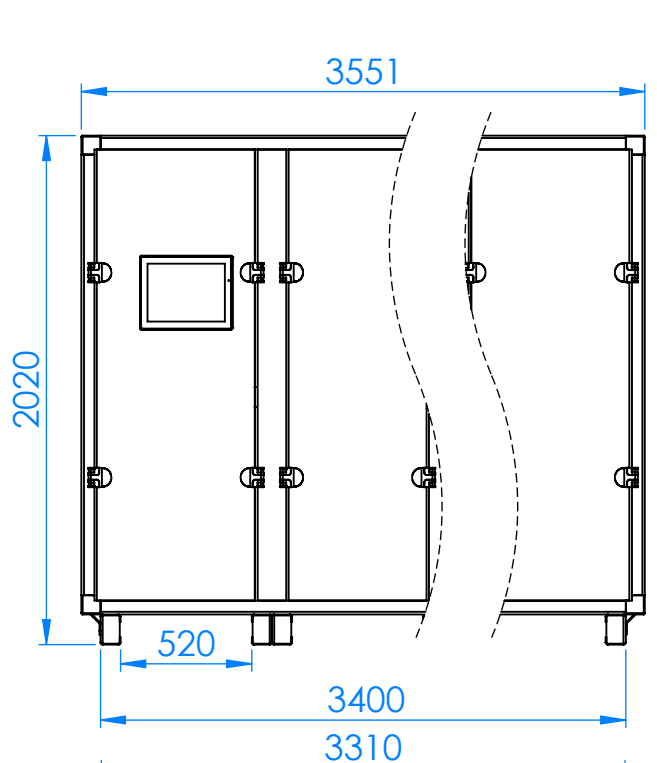
Operating limits


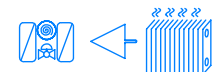
°C

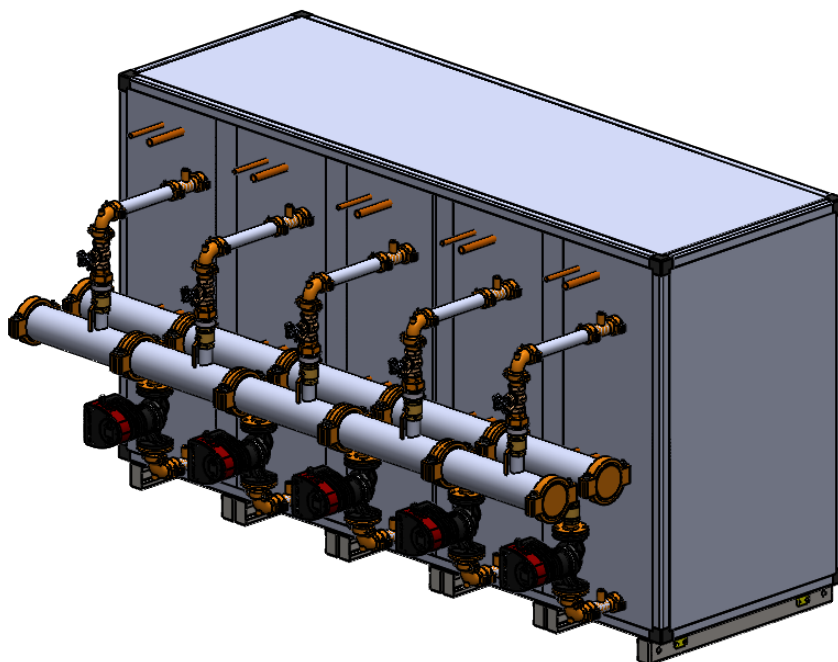
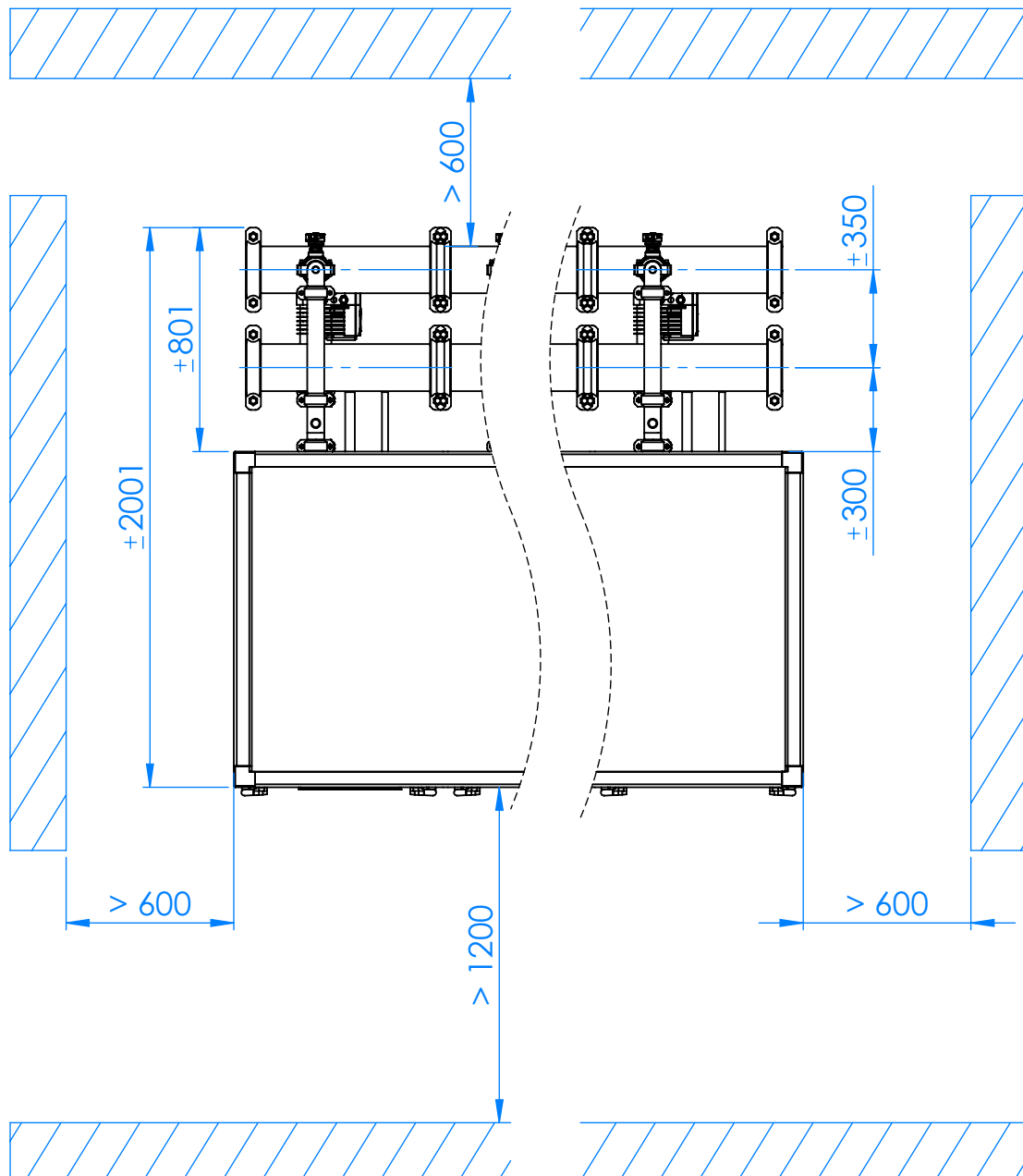


°C





- A - 
- B - 
- D (1,2,x) - SPLIT - FRIGO GAS (Modul 1-2-x)
- E (1,2,x) - SPLIT - FRIGO LIQUID (Modul 1-2-x)



WAMAK AW 500 EVI HeavyDuty 2L5 - Split unit variant: VOV900X2-FRAME

Number of units needed

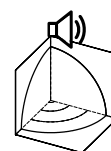
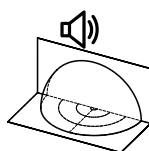
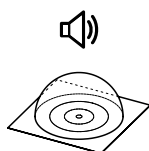
5



| Enclosure type: VOV900X2-FRAME | | | Evaporator | |
|--------------------------------|-------------|------|------------------------------------|------------------------|
| Article | WAVV2X90 | | Type | Cu-coil /Al-fin " |
| Basic dimensions | Height [mm] | 1400 | Port size | 10 x (7/8" - 1.3/8") " |
| | Width [mm] | 1500 | Heat transfer medium | Air |
| | Length [mm] | 2300 | Volume flow - Air [m3/h] | 15072 ~ 150720 |
| Weight [kg] | 430 | | Internal pressure drop - Air [kPa] | 10 x 0.061 |
| Colour | Inox | | Temperature difference - Air | 7 K |
| Enclosure IP Class | IP44 | | Expansion valve | EEV |
| Fan | 800 mm | | | |
| Number of fans | 2 | | Fan mounting position | Vertical axis |
| Fan motor type | EC | | Fan type | Axial |
| Fan nominal current [A] | 1.35 | | Fan power supply [V/Hz] | 3~ 400/50 |
| Minimal fan power input [Watt] | 81 | | Maximal fan power input [Watt] | 802 |

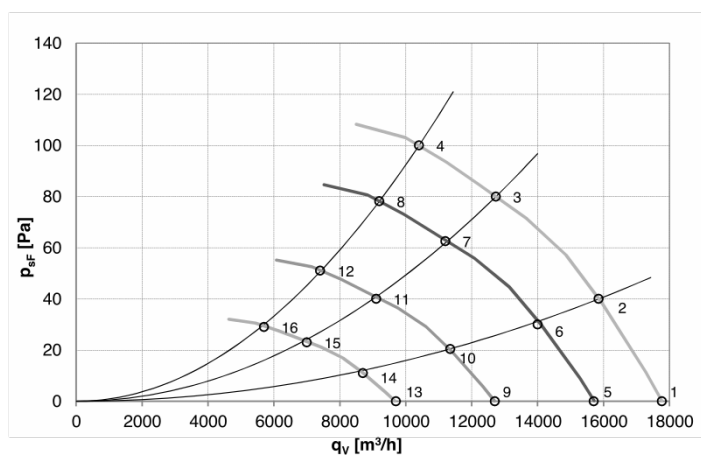
Acoustic power Lw

82.3 dB(A)

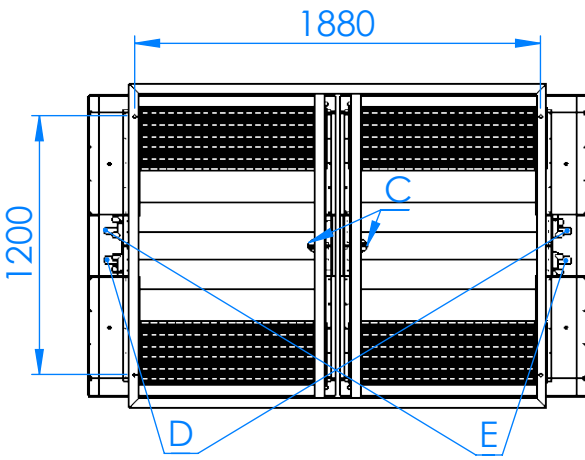
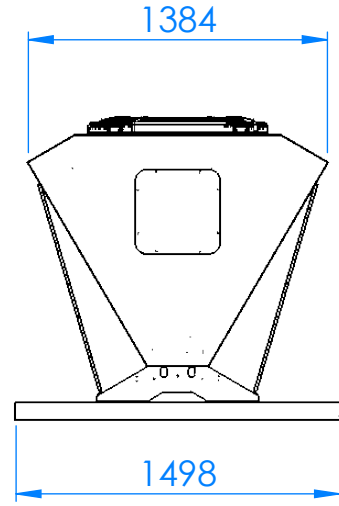
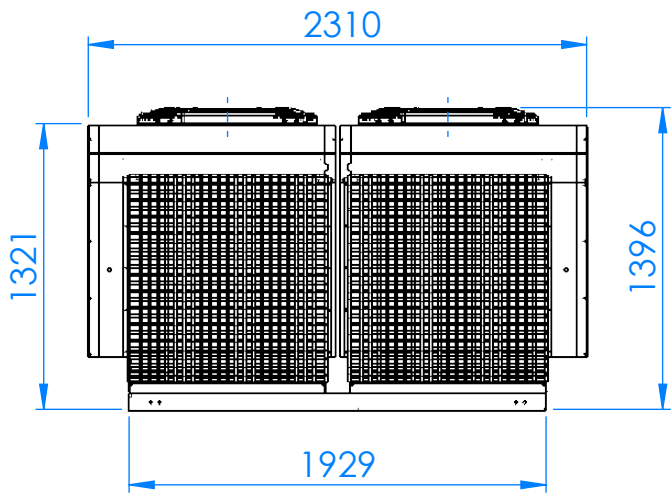


| Distance [m] | 1 | | | | 5 | | | | 10 | | | | 15 | | | |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|----|---|----|----|
| | 1 | 5 | 10 | 15 | 1 | 5 | 10 | 15 | 1 | 5 | 10 | 15 | 1 | 5 | 10 | 15 |
| Acoustic pressure Lp [dB(A)] | 77.3 | 63.3 | 57.3 | 53.8 | 80.3 | 66.3 | 60.3 | 56.8 | 74.3 | 60.3 | 54.3 | 50.8 | | | | |

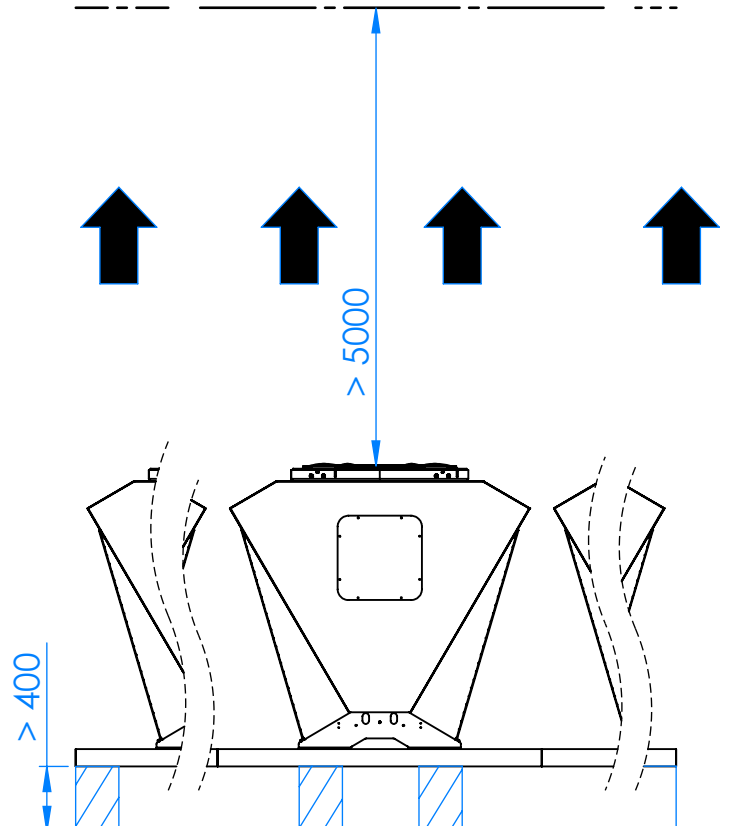
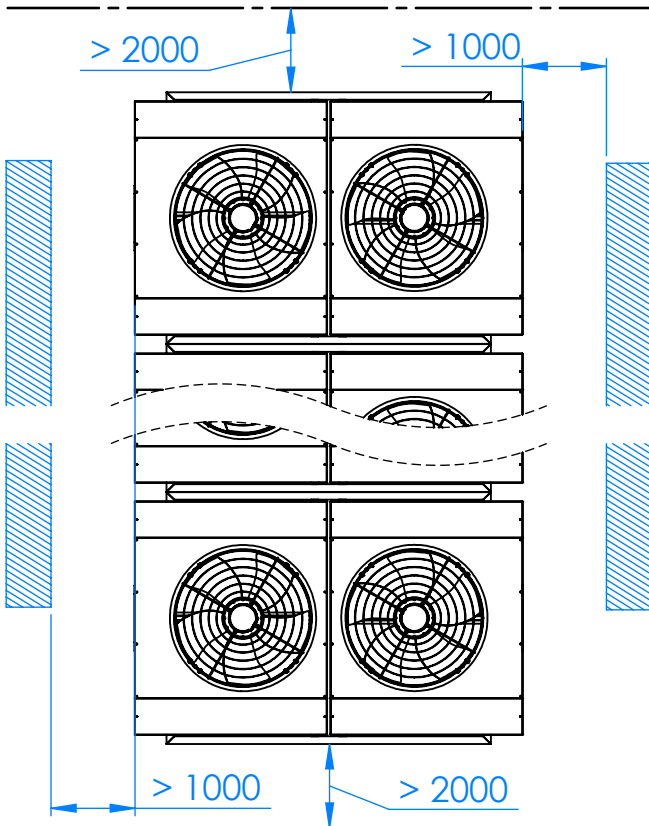
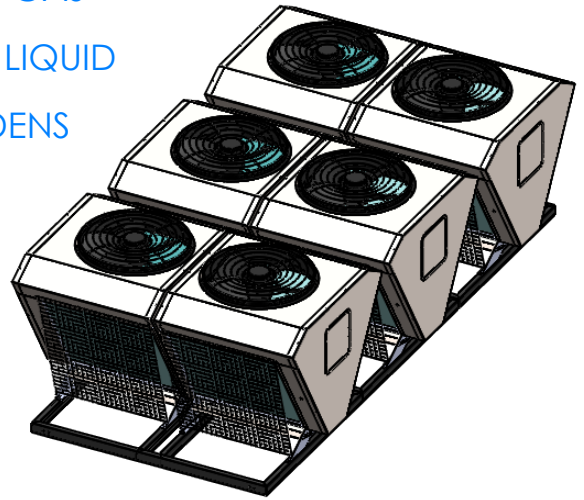
EC Fan 800mm



| | U | f | n | qv | Pst | Pe | I | LwA out | Ta 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 |



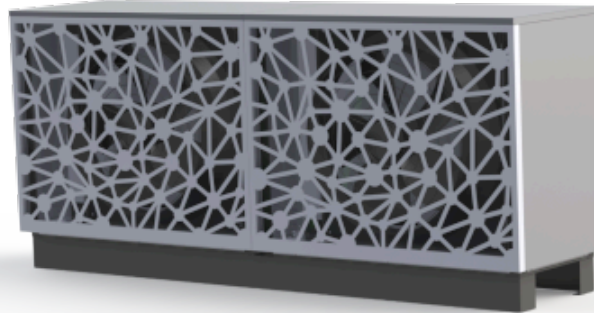
D - FRIGO GAS
E - FRIGO LIQUID
C - CONDENS



WAMAK AW 500 EVI HeavyDuty 2L5 - Split unit variant: VOII-1200-2LOW

Number of units needed

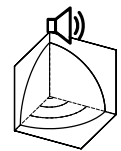
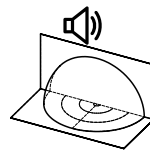
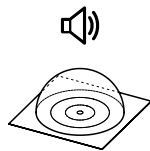
10



| Enclosure type: VOII-1200-2LOW | | | Evaporator | |
|--------------------------------|-------------|------|------------------------------------|------------------------|
| Article | WAVII12L | | Type | Cu-coil /Al-fin " |
| Basic dimensions | Height [mm] | 1240 | Port size | 10 x (7/8" - 1.3/8") " |
| | Width [mm] | 2850 | Heat transfer medium | Air |
| | Length [mm] | 710 | Volume flow - Air [m3/h] | 15072 ~ 150720 |
| Weight [kg] | 300 | | Internal pressure drop - Air [kPa] | 10 x 0.061 |
| Colour | Gray | | Temperature difference - Air | 7 K |
| Enclosure IP Class | IP44 | | Expansion valve | EEV |
| Fan | 800 mm | | | |
| Number of fans | 2 | | Fan mounting position | Horizontal axis |
| Fan motor type | EC | | Fan type | Axial |
| Fan nominal current [A] | 1.35 | | Fan power supply [V/Hz] | 3~ 400/50 |
| Minimal fan power input [Watt] | 81 | | Maximal fan power input [Watt] | 802 |

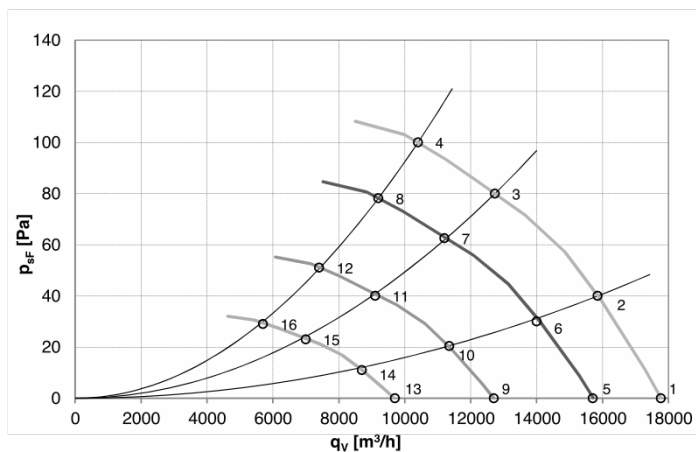
Acoustic power Lw

78.8 dB(A)



| Distance [m] | 1 | | | | 5 | | | | 10 | | | | 15 | | | |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|----|--|--|--|
| | 73.8 | 59.8 | 53.8 | 50.3 | 76.8 | 62.8 | 56.8 | 53.3 | 70.8 | 56.8 | 50.8 | 47.3 | | | | |
| Acoustic pressure Lp [dB(A)] | | | | | | | | | | | | | | | | |

EC Fan 800mm

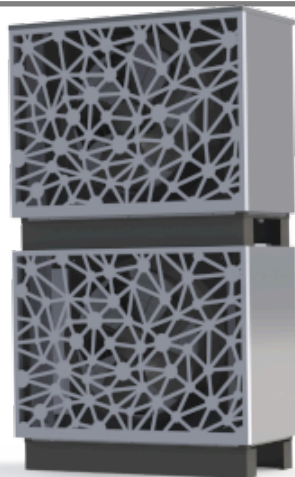


| | U | f | n | qv | PstF | Pe | I | LwA out | Ta max |
|----|-----|------|-------|--------|------|-----|------|----------|--------|
| | [V] | [Hz] | [RPM] | [m³/h] | [Pa] | [W] | [A] | [dB (A)] | [°C] |
| 1 | 400 | 50 | 735 | 17770 | 0 | 503 | 0,85 | 70 | 60 |
| 2 | 400 | 50 | 735 | 15850 | 40 | 612 | 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 500 EVI HeavyDuty 2L5 - Split unit variant: VOII-1200-2HIGH

Number of units needed

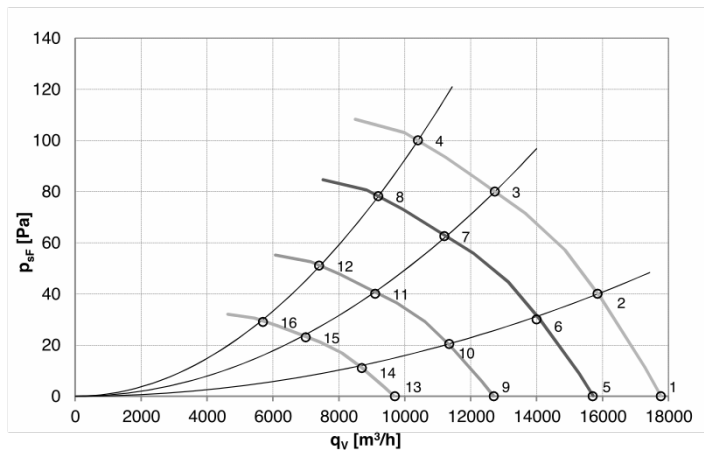
10



| Enclosure type: VOII-1200-2HIGH | | | Evaporator | |
|---------------------------------|-------------|------|------------------------------------|------------------------|
| Article | WAVII12H | | Type | Cu-coil /Al-fin " |
| Basic dimensions | Height [mm] | 2450 | Port size | 10 x (7/8" - 1.3/8") " |
| | Width [mm] | 1420 | Heat transfer medium | Air |
| | Length [mm] | 710 | Volume flow - Air [m3/h] | 15072 ~ 150720 |
| Weight [kg] | 300 | | Internal pressure drop - Air [kPa] | 10 x 0.061 |
| Colour | Gray | | Temperature difference - Air | 7 K |
| Enclosure IP Class | IP44 | | Expansion valve | EEV |
| Fan | 800 mm | | | |
| Number of fans | 2 | | Fan mounting position | Horizontal axis |
| Fan motor type | EC | | Fan type | Axial |
| Fan nominal current [A] | 1.35 | | Fan power supply [V/Hz] | 3~ 400/50 |
| Minimal fan power input [Watt] | 81 | | Maximal fan power input [Watt] | 802 |

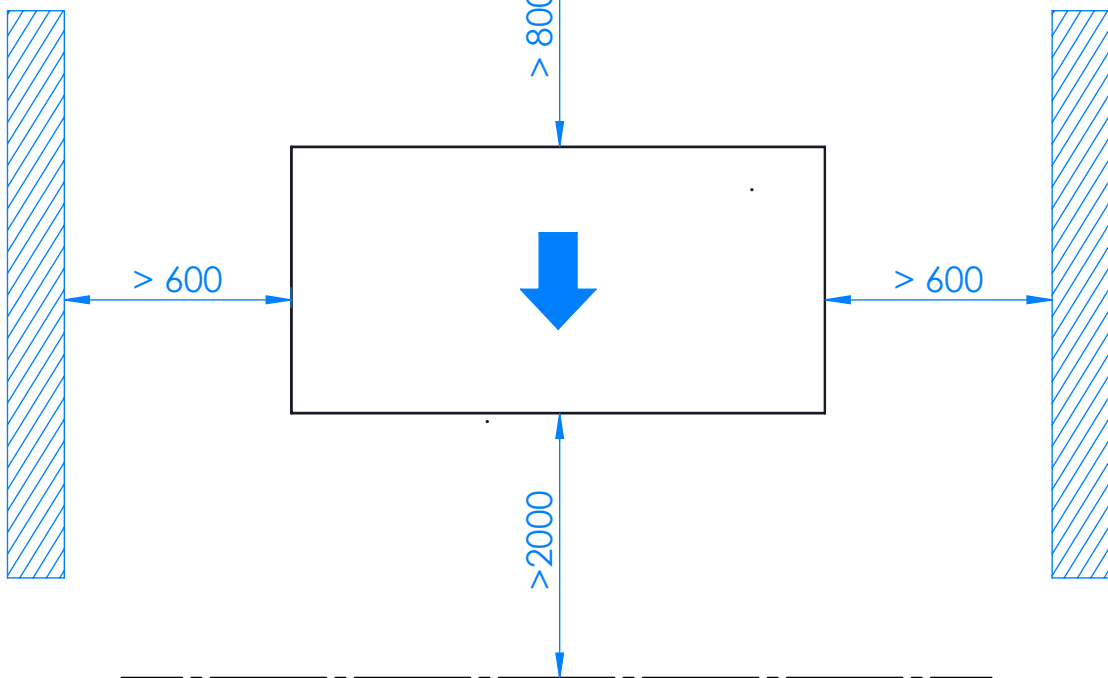
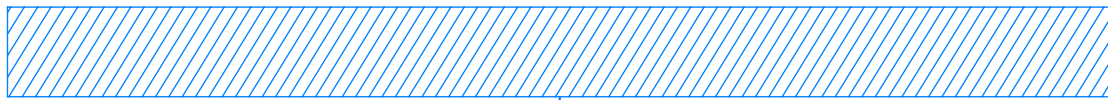
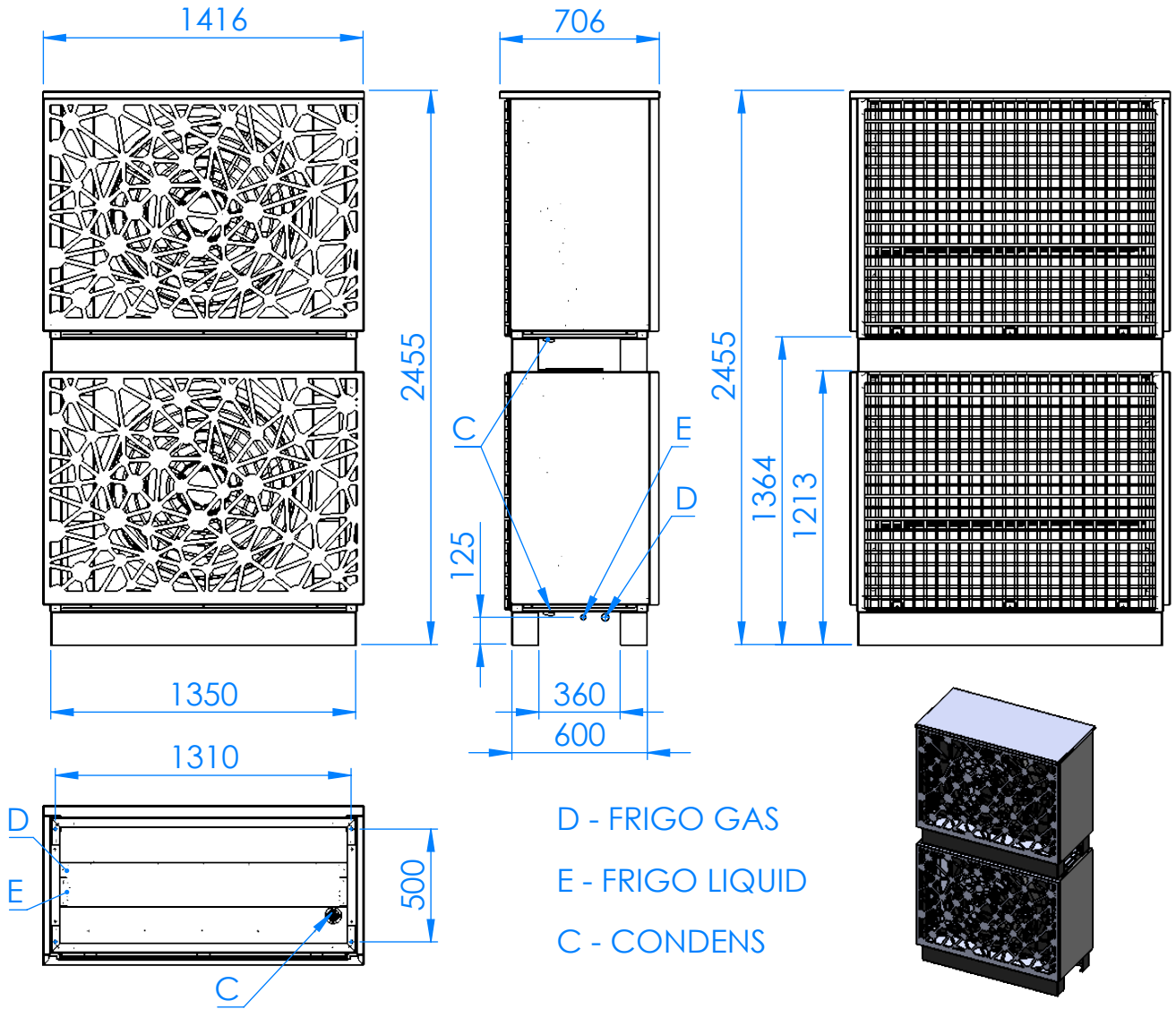
| Acoustic power Lw | | | | | | | | | | | | |
|------------------------------|------------|------|------|------|------|------|------|------|------|------|------|------|
| | 78.8 dB(A) | | | | | | | | | | | |
| Distance [m] | 1 | 5 | 10 | 15 | 1 | 5 | 10 | 15 | 1 | 5 | 10 | 15 |
| Acoustic pressure Lp [dB(A)] | 73.8 | 59.8 | 53.8 | 50.3 | 76.8 | 62.8 | 56.8 | 53.3 | 70.8 | 56.8 | 50.8 | 47.3 |

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 |

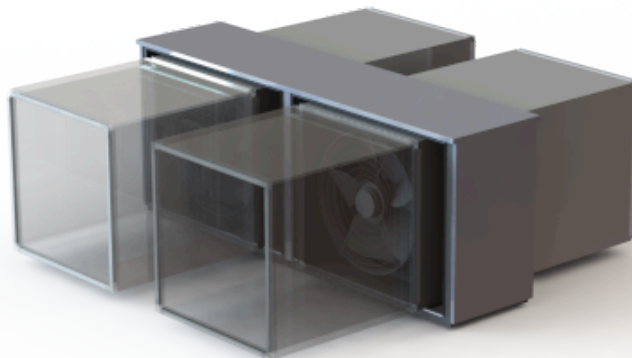
WAMAK AW 500 EVI HeavyDuty 2L5



WAMAK AW 500 EVI HeavyDuty 2L5 - Split unit variant: VOII-1200-2LOW-DUCT

Number of units needed

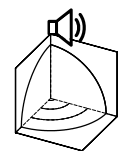
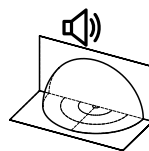
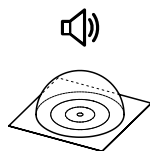
10



| Enclosure type: VOII-1200-2LOW-DUCT | | | Evaporator | |
|-------------------------------------|-------------|------|------------------------------------|------------------------|
| Article | WAVID12L | | Type | Cu-coil /Al-fin " |
| Basic dimensions | Height [mm] | 1240 | Port size | 10 x (7/8" - 1.3/8") " |
| | Width [mm] | 2850 | Heat transfer medium | Air |
| | Length [mm] | 710 | Volume flow - Air [m3/h] | 15072 ~ 150720 |
| Weight [kg] | 300 | | Internal pressure drop - Air [kPa] | 10 x 0.061 |
| Colour | Gray | | Temperature difference - Air | 7 K |
| Enclosure IP Class | IP44 | | Expansion valve | EEV |
| Fan | 800 mm | | | |
| Number of fans | 2 | | Fan mounting position | Horizontal axis |
| Fan motor type | EC | | Fan type | Axial |
| Fan nominal current [A] | 1.35 | | Fan power supply [V/Hz] | 3~ 400/50 |
| Minimal fan power input [Watt] | 81 | | Maximal fan power input [Watt] | 802 |

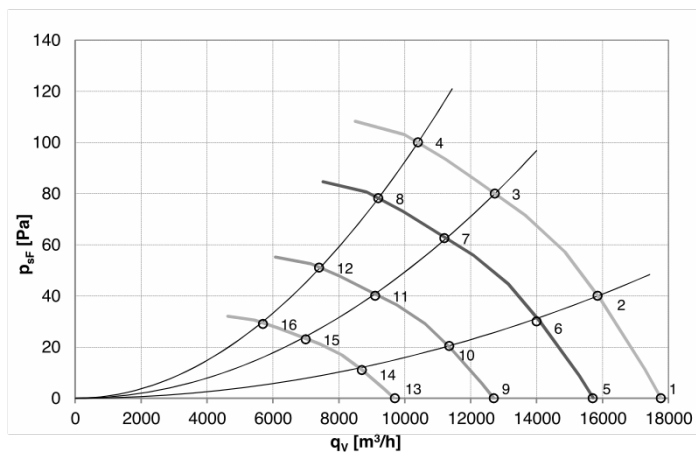
Acoustic power Lw

78.8 dB(A)



| Distance [m] | 1 | | | | 5 | | | | 10 | | | | 15 | | | |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|----|---|----|----|
| | 1 | 5 | 10 | 15 | 1 | 5 | 10 | 15 | 1 | 5 | 10 | 15 | 1 | 5 | 10 | 15 |
| Acoustic pressure Lp [dB(A)] | 73.8 | 59.8 | 53.8 | 50.3 | 76.8 | 62.8 | 56.8 | 53.3 | 70.8 | 56.8 | 50.8 | 47.3 | | | | |

EC Fan 800mm

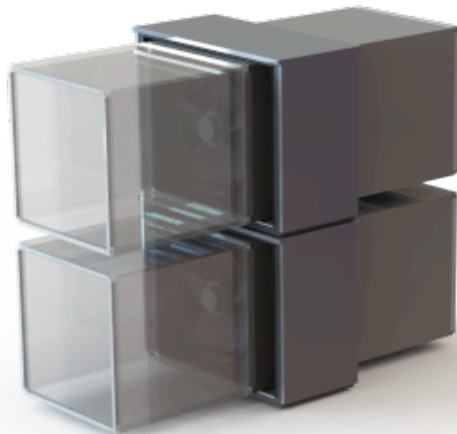


| | U | f | n | qv | P _{sF} | P _e | I | L _{WA out} | T _{a max} |
|----|-----|------|-------|--------|-----------------|----------------|------|---------------------|--------------------|
| | [V] | [Hz] | [RPM] | [m³/h] | [Pa] | [W] | [A] | [dB (A)] | [°C] |
| 1 | 400 | 50 | 735 | 17770 | 0 | 503 | 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 500 EVI HeavyDuty 2L5 - Split unit variant: VOII-1200-2HIGH-DUCT

Number of units needed

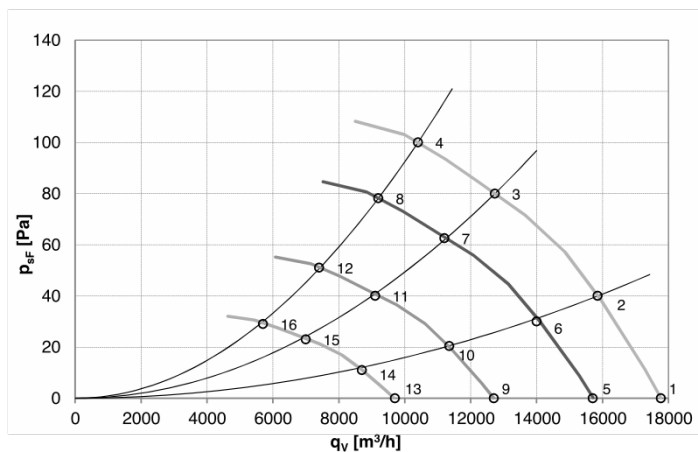
10



| Enclosure type: VOII-1200-2HIGH-DUCT | | | Evaporator | |
|--------------------------------------|-------------|------|------------------------------------|------------------------|
| Article | WAVID12H | | Type | Cu-coil /Al-fin " |
| Basic dimensions | Height [mm] | 2450 | Port size | 10 x (7/8" - 1.3/8") " |
| | Width [mm] | 1420 | Heat transfer medium | Air |
| | Length [mm] | 710 | Volume flow - Air [m3/h] | 15072 ~ 150720 |
| Weight [kg] | 300 | | Internal pressure drop - Air [kPa] | 10 x 0.061 |
| Colour | Gray | | Temperature difference - Air | 7 K |
| Enclosure IP Class | IP44 | | Expansion valve | EEV |
| Fan | 800 mm | | | |
| Number of fans | 2 | | Fan mounting position | Horizontal axis |
| Fan motor type | EC | | Fan type | Axial |
| Fan nominal current [A] | 1.35 | | Fan power supply [V/Hz] | 3~ 400/50 |
| Minimal fan power input [Watt] | 81 | | Maximal fan power input [Watt] | 802 |

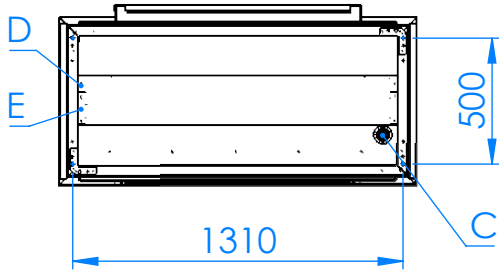
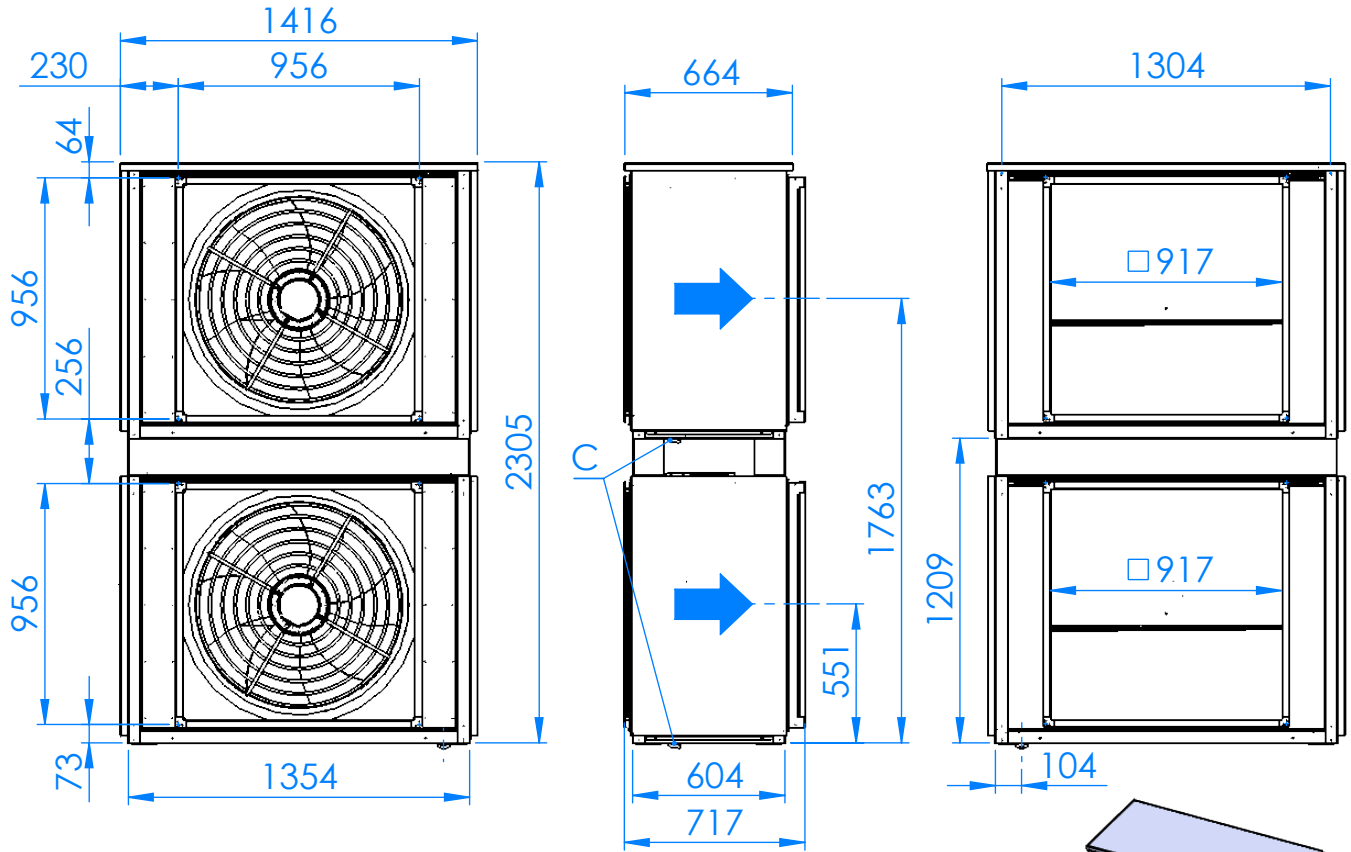
| Acoustic power Lw |  | | | |  | | | |  | | | | |
|------------------------------|---|------|------|------|---|------|------|------|---|------|------|------|------|
| | 78.8 dB(A) | 1 | 5 | 10 | 15 | 1 | 5 | 10 | 15 | 1 | 5 | 10 | 15 |
| Distance [m] | | 1 | 5 | 10 | 15 | 1 | 5 | 10 | 15 | 1 | 5 | 10 | 15 |
| Acoustic pressure Lp [dB(A)] | | 73.8 | 59.8 | 53.8 | 50.3 | 76.8 | 62.8 | 56.8 | 53.3 | 70.8 | 56.8 | 50.8 | 47.3 |

EC Fan 800mm

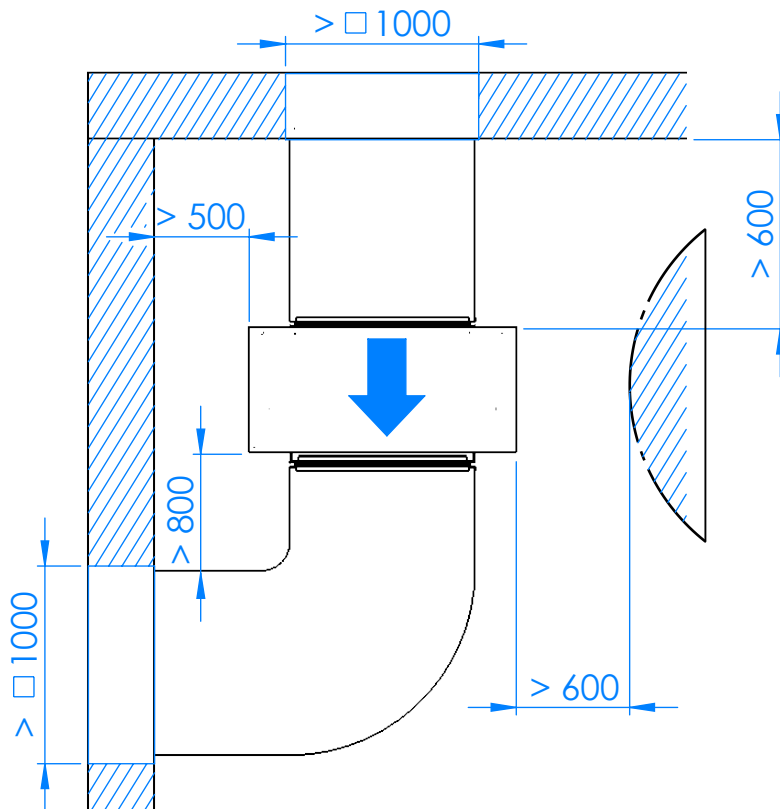
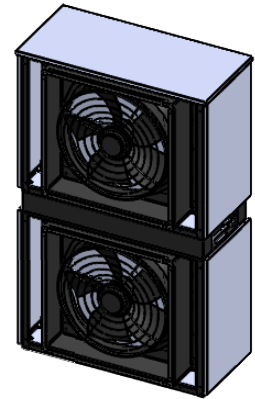


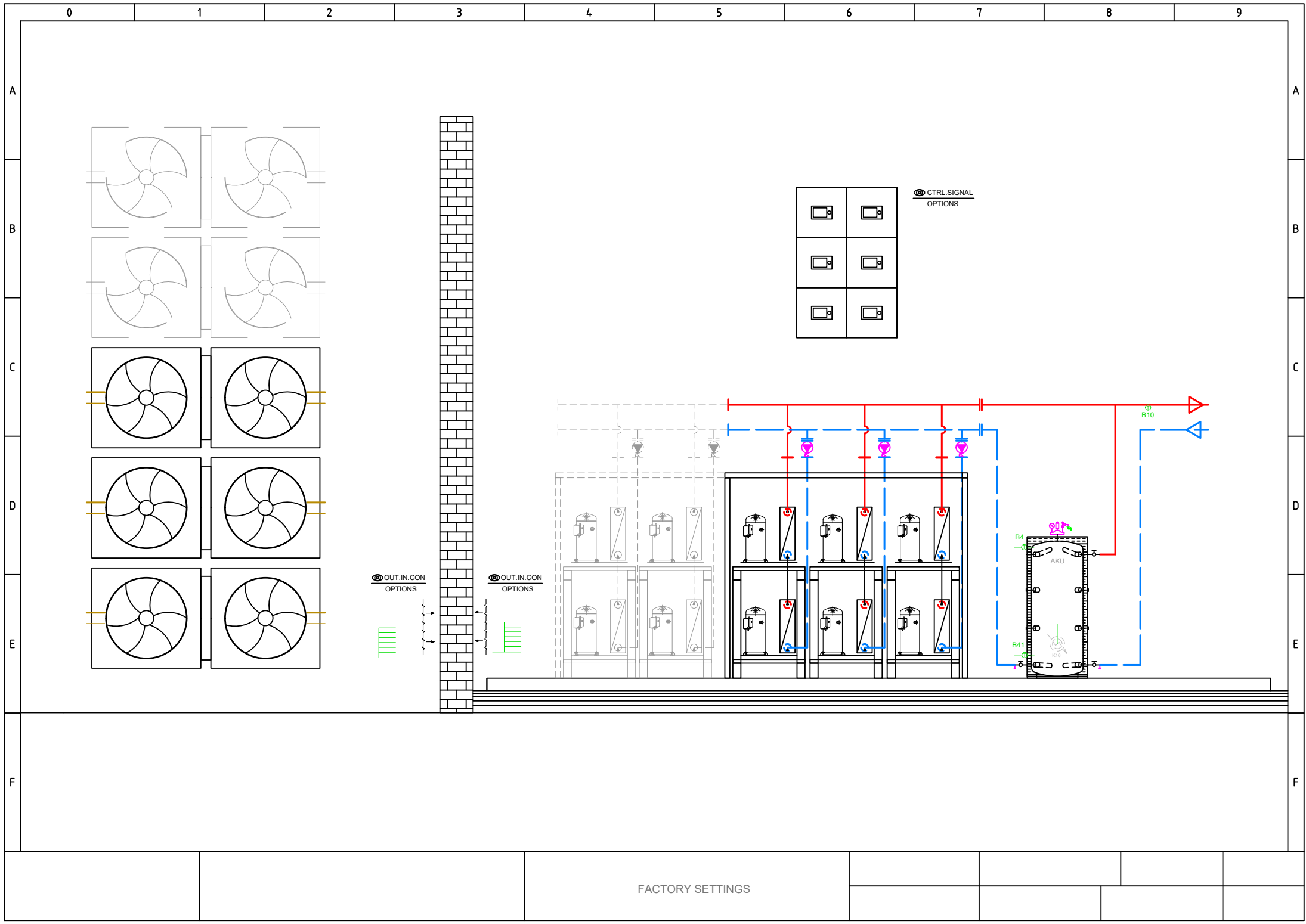
| | U | f | n | qv | Pst | Pe | I | LwA out | Ta max |
|----|-----|------|-------|--------|------|-----|------|----------|--------|
| | [V] | [Hz] | [RPM] | [m³/h] | [Pa] | [W] | [A] | [dB (A)] | [°C] |
| 1 | 400 | 50 | 735 | 17770 | 0 | 503 | 0,85 | 70 | 60 |
| 2 | 400 | 50 | 735 | 15850 | 40 | 612 | 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 500 EVI HeavyDuty 2L5



D - FRIGO GAS
 E - FRIGO LIQUID
 C - CONDENS





Main power supply 230V / 50 Hz
Ground
Neutral conductor

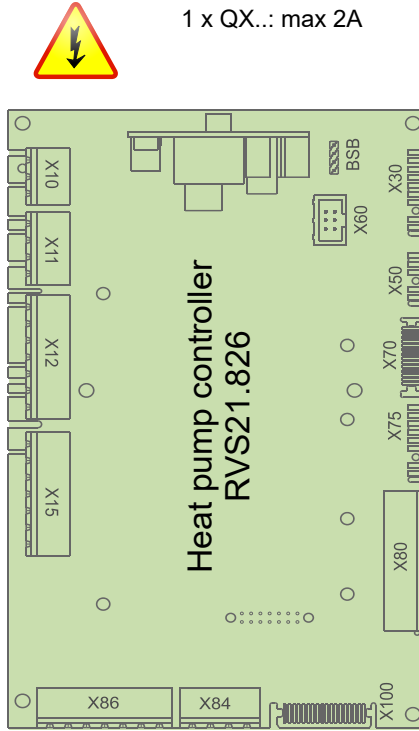
- E10 High-pressure switch E10
- E11 Overload compressor 1 E11
- E14 Overload source E14
- E24 Flow switch consumers E24
- K82 Valve EVI K82

K40 Crankcase heater K40

- L Phase 230V
- K1 Compressor stage 1 K1
- Y22 Process revers valve Y22

Q9 Condenser pump 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 |
| X12 | 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 |

- Connection service tool (OCI700)
- Operating unit (HMI) AVS37.xxx
- Modbus clip-in OCI351.01
- Extension module AVS75.xxx
- LPB clip-in

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

- D1 Digital output 1 Heating
- D2 Digital output 2 Cooling
- D3 Digital output 3 HP On/Off

- DI6 Digital input 6 Defrosting
- DI7 Digital input 7 Alarm

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

- B91 Source inlet sensor B91
- B84 Source outl sens B92/B84
- K19 Fan K19
- 0..10 V Signal
- Q9 Condenser pump Q9
- PWM Signal

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

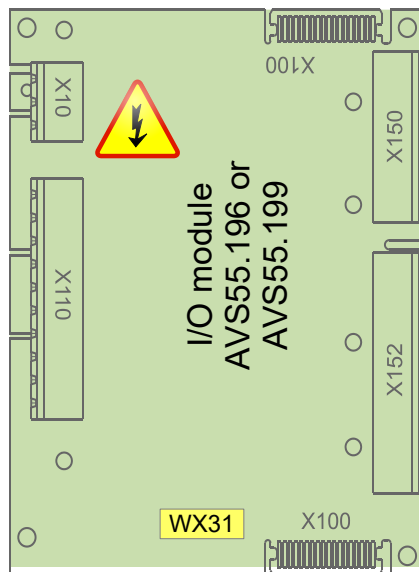
- B71 HP return sensor B71
- B9 Outside sensor B9

Main power supply 230V / 50 Hz
Ground
Neutral conductor

K10 Alarm output K10

V81 EEV evaporator V81

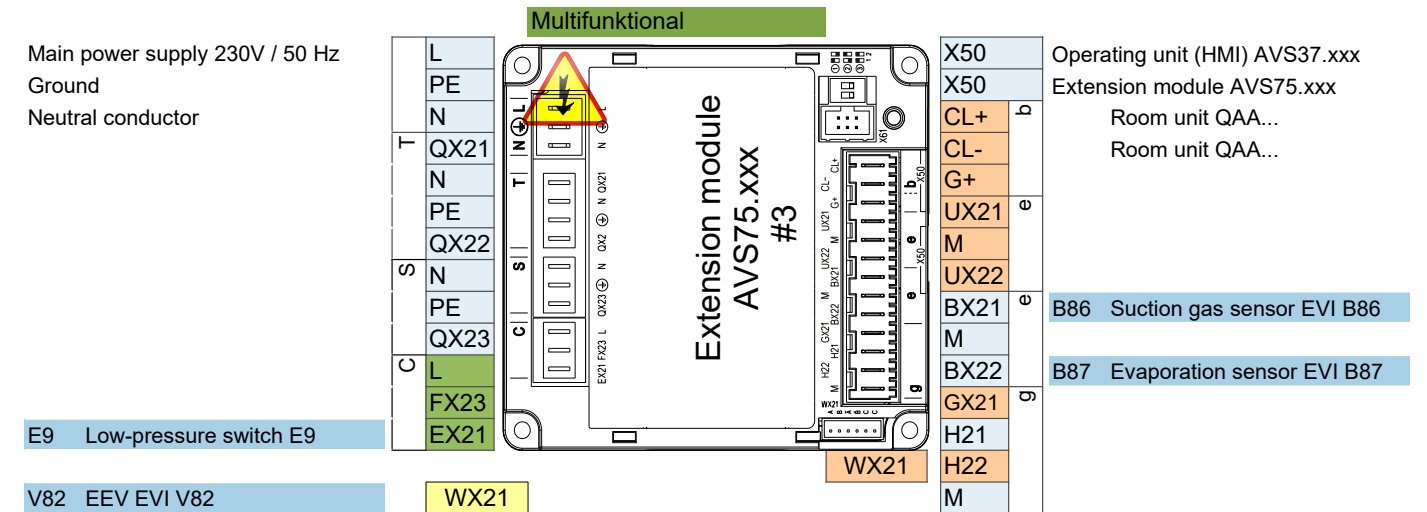
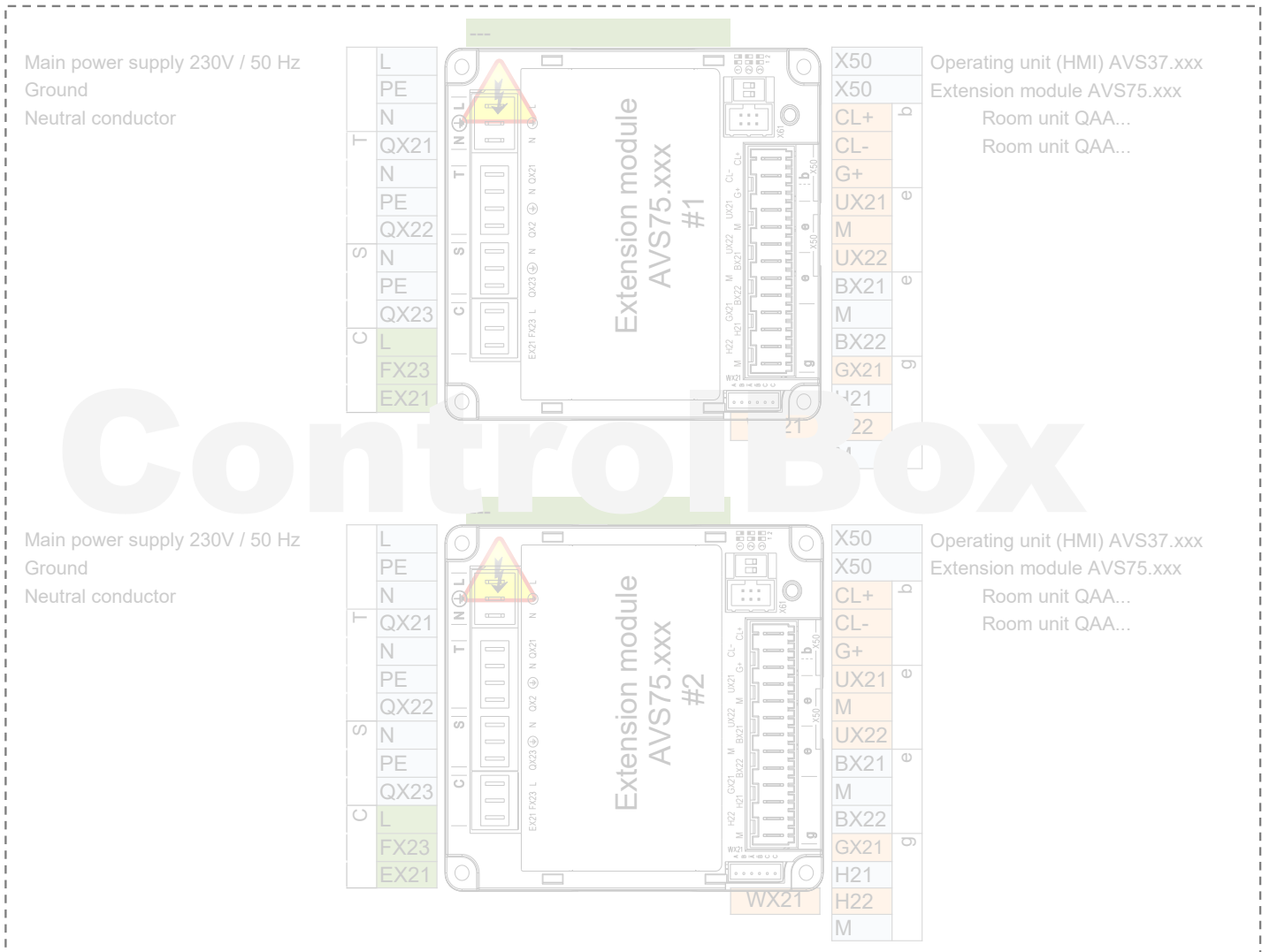
| | | |
|------|---|-------|
| X10 | 1 | L |
| X10 | 1 | PE |
| X10 | 1 | N |
| X110 | 1 | QX31 |
| X110 | 1 | QX32 |
| X110 | 1 | N |
| X110 | 1 | QX33 |
| X110 | 1 | N |
| X110 | 1 | ZX34 |
| X110 | 1 | N |
| X115 | 1 | QX35 |
| X115 | 1 | QX35i |
| X115 | 1 | N |

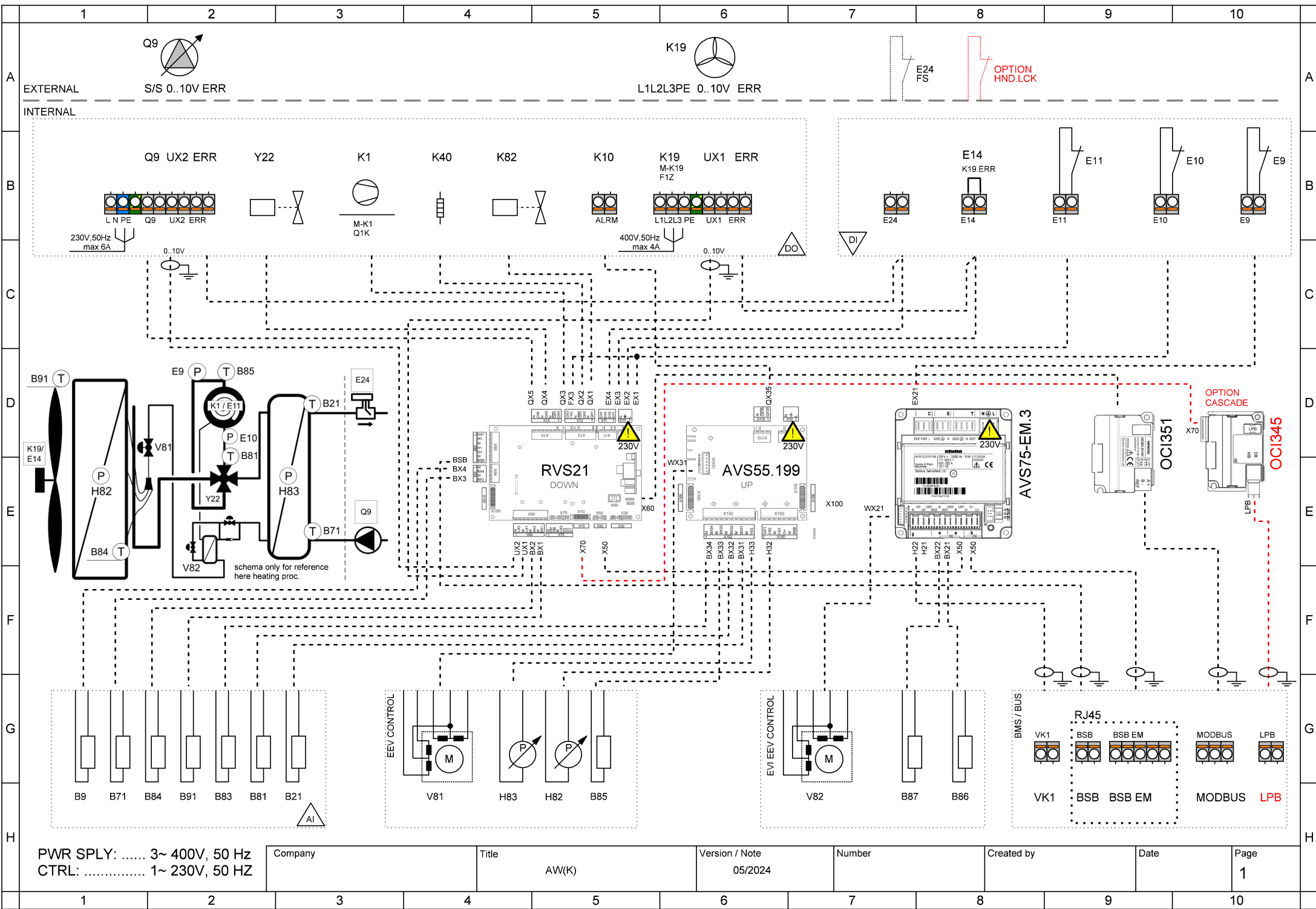


| |
|------|
| BSB |
| M |
| G+ |
| H31 |
| M |
| H32 |
| GX1 |
| H33 |
| M |
| BX31 |
| M |
| BX32 |
| M |
| BX33 |
| M |
| BX34 |
| M |

- 5 V/12 V for active sensors
- Flow measurement 10V
- Low pressure 0..10V
- 5 V/12 V for active sensors
- High pressure 0..10V
- B21 HP flow sensor B21
- B81 Hot-gas sensor B81
- B85 Suction gas sensor B85
- B83 Refrig sensor liquid B83

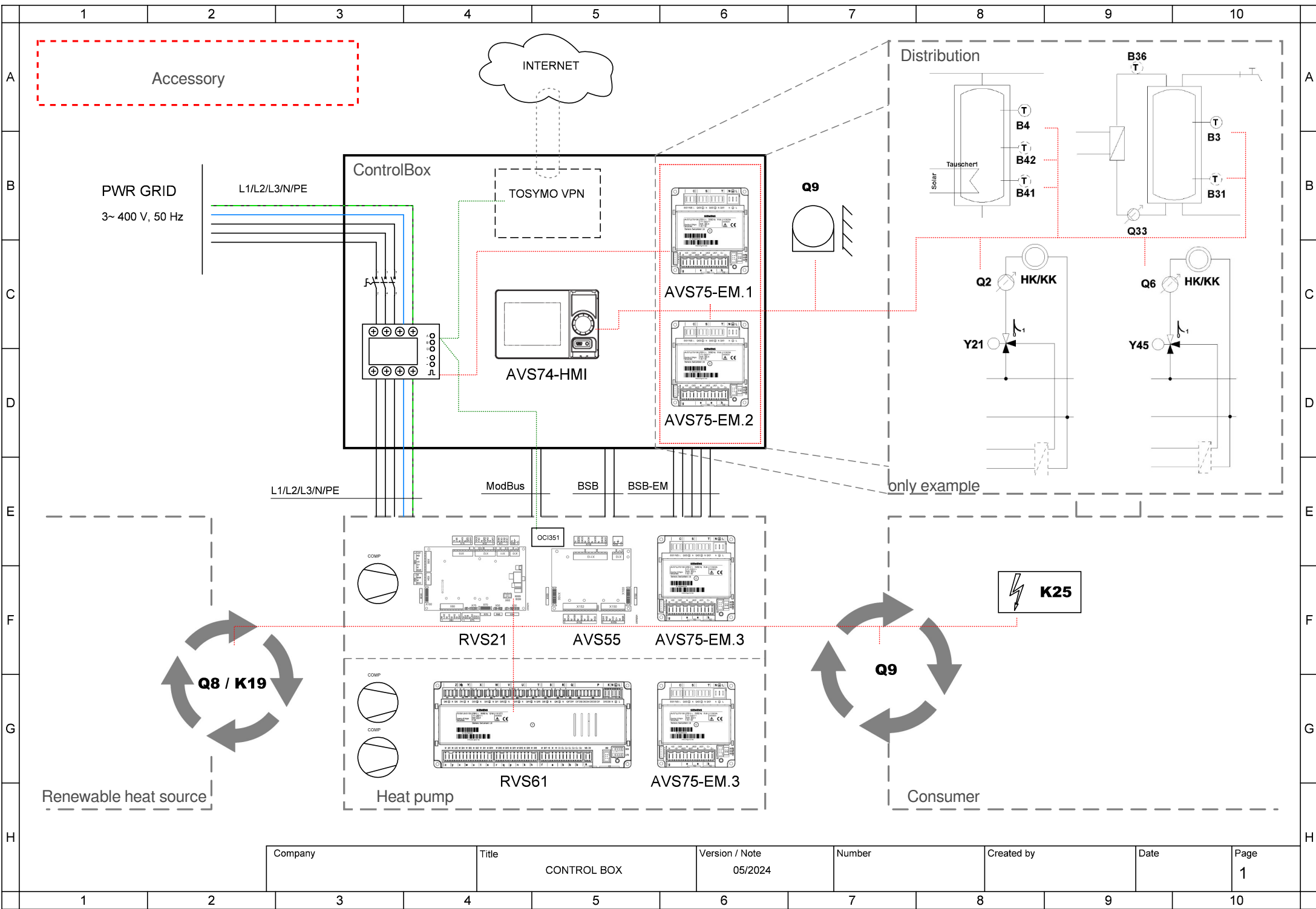
- AVS75.390
- AVS75.391
- AVS75.370



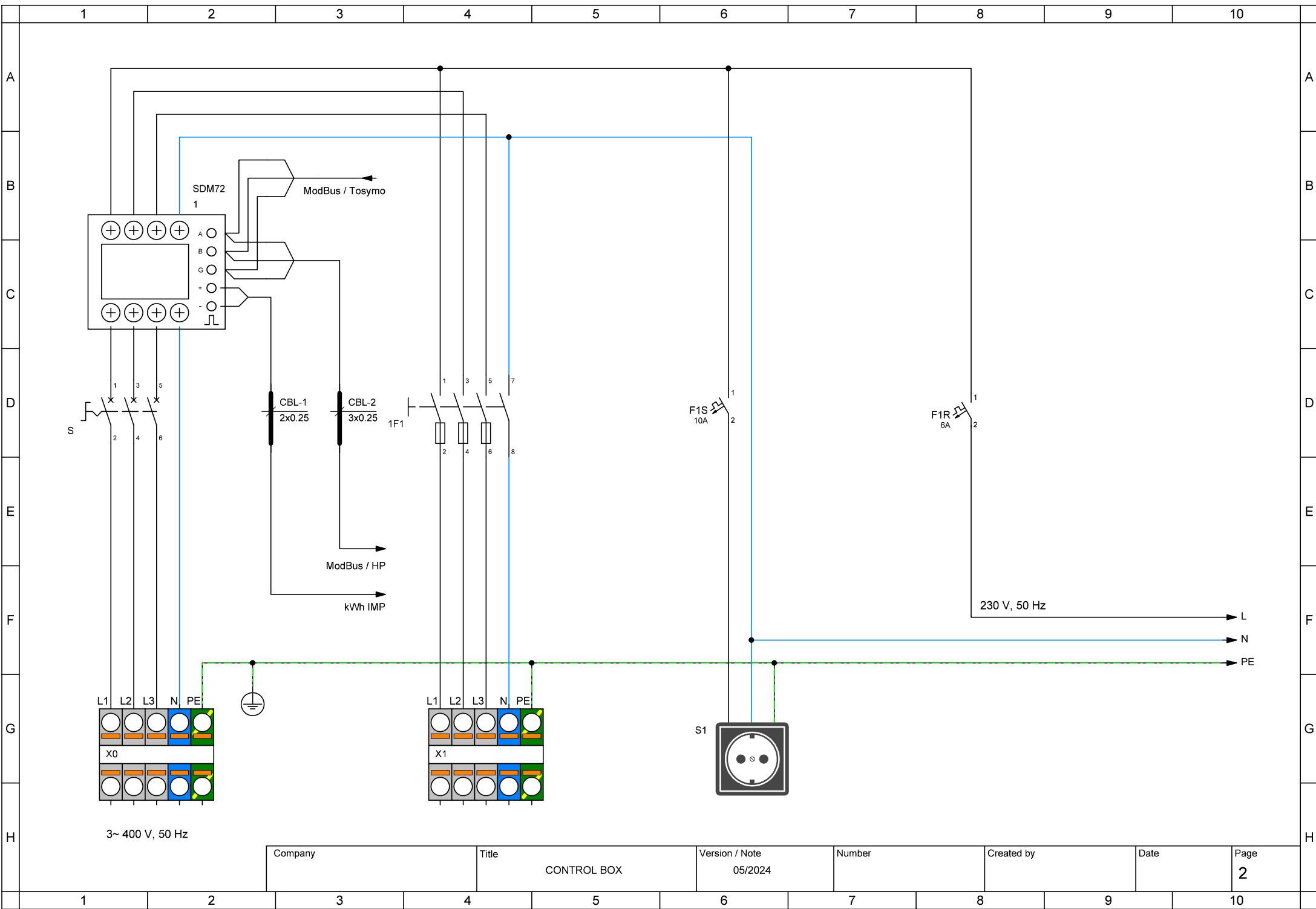


PWR SPLY: 3~ 400V, 50 Hz
 CTRL: 1~ 230V, 50 HZ

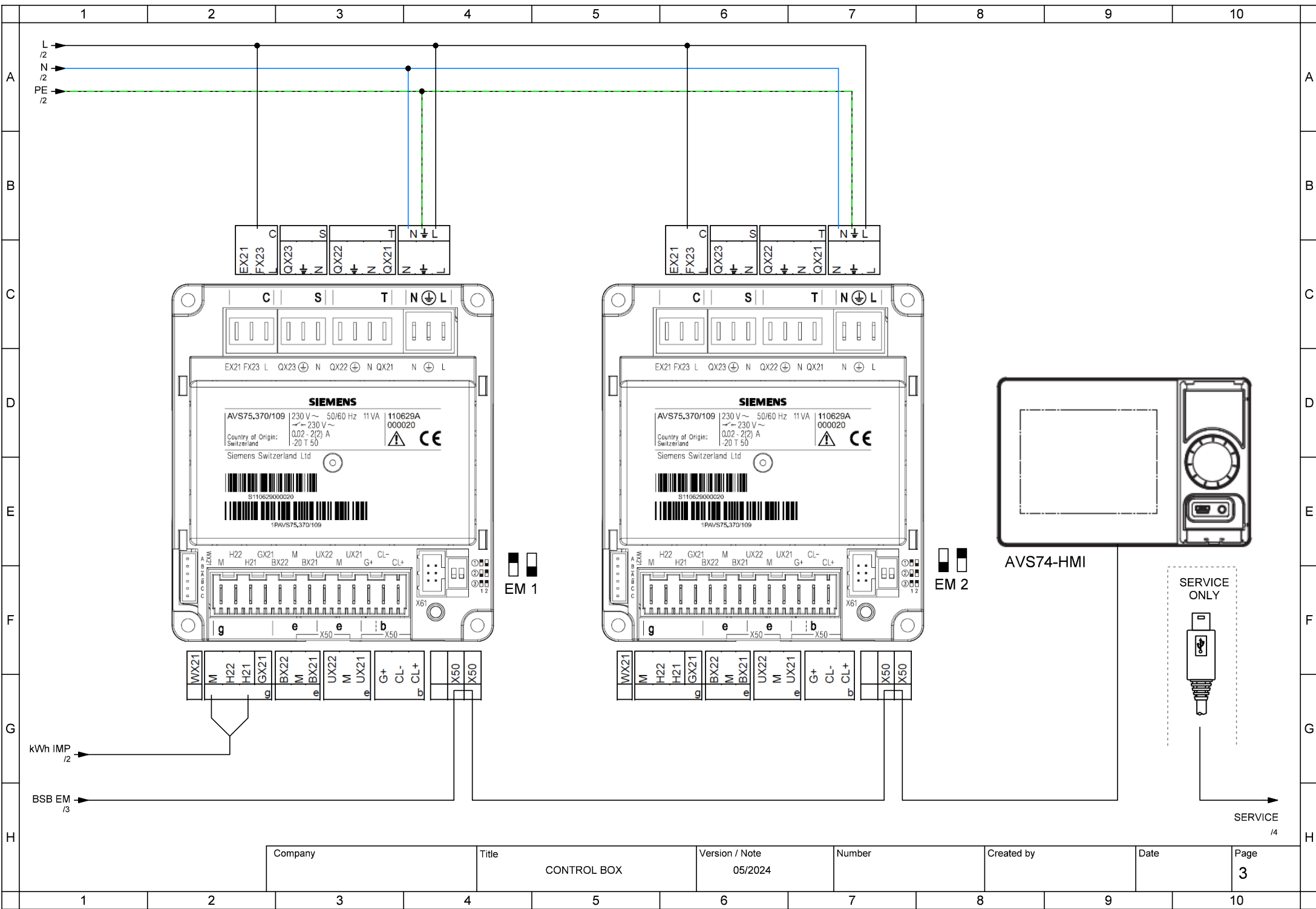
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|---------|-------|----------------|--------|------------|------|------|
| Company | Title | Version / Note | Number | Created by | Date | Page |
| | AW(K) | 05/2024 | | | | 1 |



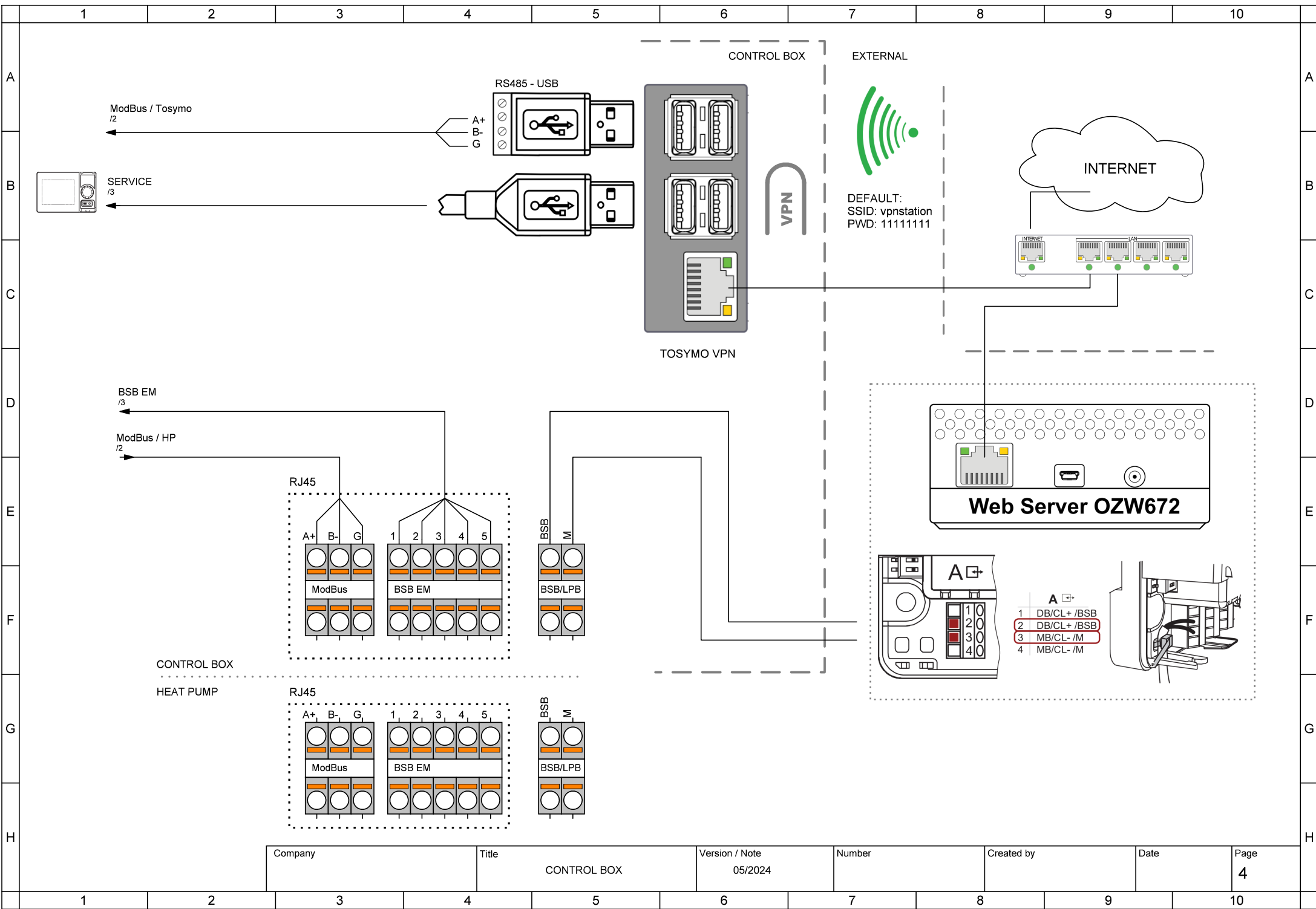
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|---------|-------------|----------------|--------|------------|------|------|
| Company | Title | Version / Note | Number | Created by | Date | Page |
| | CONTROL BOX | 05/2024 | | | | 1 |



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



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

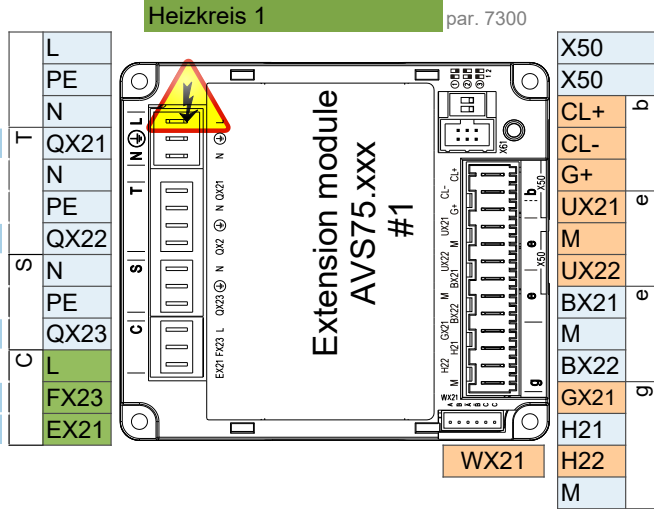
- AVS75.390
- AVS75.391
- AVS75.370

- AVS75.370**
 Main power supply 230V / 50 Hz
 Ground
 Neutral conductor
Y1 Mixing valve Open

Y2 Mixing valve Close

Q2 Heat circuit pump HC1 Q2

L Phase 230V
E61 Smart grid E61



- Extension module AVS75.xxx
 Room unit QAA...
 Room unit QAA...

B1 Flow sensor 1

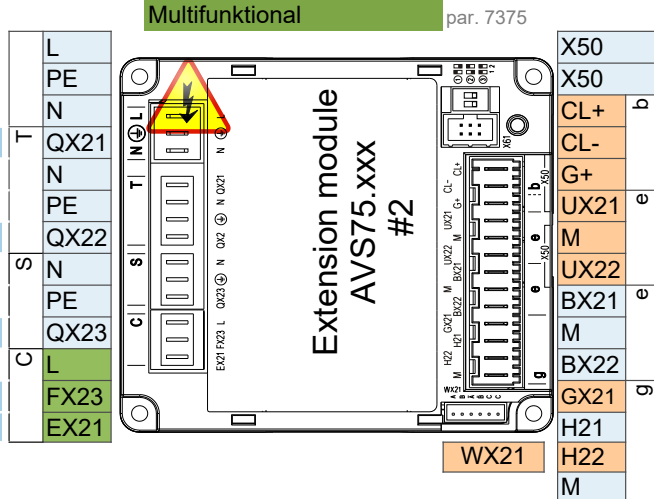
 Pulse count

- AVS75.370**
 Main power supply 230V / 50 Hz
 Ground
 Neutral conductor
Q3 DHW ctrl elem Q3

K6 El imm heater DHW K6

Q6 Heat circuit pump HC2 Q6

L Phase 230V
E62 Smart grid E62

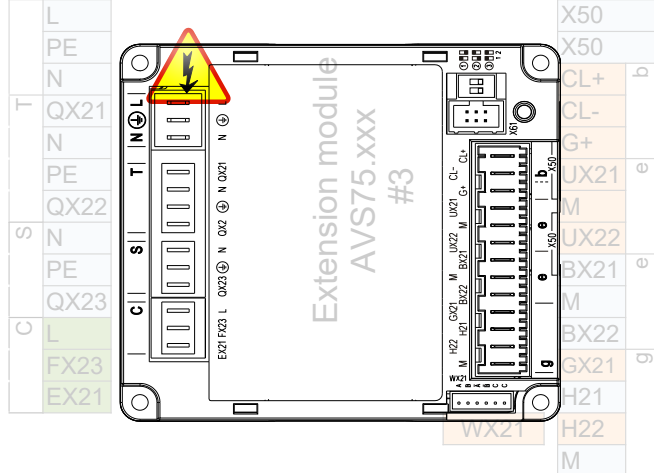


- Operating unit (HMI) AVS37.xxx
 Extension module AVS75.xxx
 Room unit QAA...
 Room unit QAA...

B3 DHW sensor B3

B4 Buffer sensor B4

- Main power supply 230V / 50 Hz
 Ground
 Neutral conductor



- Operating unit (HMI) AVS37.xxx
 Extension module AVS75.xxx
 Room unit QAA...
 Room unit QAA...

Attention: Extension module 3 is inside the heat pump

Control connection options

1 ControlBox

ControlBox, with two built-in extension modules, enables numerous options for application control on the consumer side behind the heat pump. For more, see the ControlBox schematic and the application diagrams sheet.

2 Fix flow temperature setpoint - On / Off dry (potential free) contact

2 wire shielded cable 2 x 0.5 mm² - Setpoint = 45°C (editable by param. 1859)

Connection terminal - see wiring diagram

3 Analog 0..10V flow temperature setpoint control

2 wire shielded cable 2 x 0.5 mm² - Setpoint: 0V = 16°C ~ 10V = 60°C (editable in parameter set)

Connection terminal - see wiring diagram

4 ModBus RTU communication command

3 wire shielded cable min. 3 x 0.25mm²

For ModBus mapping table contact technical support

5 MQTT IoT communication protocol

For more information contact technical support