

Basic performance data - WAMAK AW 27 EVI

Heating - EN 14511		
Heating capacity [kW]	A7 / W35	29.0
	A2 / W35	24.7
	A-7 / W34	20.3
Electrical power input [kW]	A7 / W35	6.4
	A2 / W35	6.4
	A-7 / W34	6.3
Heating efficiency faktor [COP]	A7 / W35	4.56
	A2 / W35	3.83
	A-7 / W34	3.23
Seasonal space heating energy efficiency - SCOP EN 14825		
Average Climate / Low Temperature [35 °C]	SCOP	4.37
	η [%]	174.7
	Label	A+++
	Qhe [kWh]	10539.3
	Pdesignh [kW]	23.0
	Tbivalent [°C]	-7
Cooling		
Cooling capacity - [kW]	A35 / W23-18	28.4
	A25 / W23-18	30.0
	A35 / W12-7	20.9
	A25 / W12-7	20.9
Seasonal space cooling energy efficiency - SEER EN 14825		
[W 23 / 18 °C]	SEER	4.61
	Qce [kWh]	12540.0
	η_c [%]	184.3
Sound EN 12102		
Acoustic power - Lw	dB(A)	62.1
Acoustic pressure - Lp	1 m dB(A)	54.1
	5 m dB(A)	40.1
	10 m dB(A)	34.1
Mechanical and operational information		
Compressor type (3~ 400/50)	SCROLL / 1 /	On/Off
Refrigerant	R410A (GWP - 2088)	7.9 kg
Operating limit temperatures heating - (min / max) [°C]		25 / 65
Operating limit temperatures source - (min / max) [°C]		-22 / 40
Weight		225 kg

Main technical data - WAMAK AW 27 EVI

Enclosure type			VN800			Heat energy rejection side data				
Basic dimensions	Height [mm]	1270	Operating limit temperatures heating	MAX [°C]	65	for more see operating limits diagram	Condenser	Port size	1.1/2 "	
	Width [mm]	850		MIN [°C]	25			Type	BPHE	
	Length [mm]	630		Count	1			Material	AISI 316	
Weight [kg]	225		Maximal operating pressure - refrigerant [bar]	50		for more see operating limits diagram	Maximal operating pressure - Water [bar]	6		
Colour	Gray		Testing pressure [bar]	70				Heat transfer medium	Water	
Enclosure IP Class	IP20		Volume flow @ dT 5K (nom) - Water [m3/h]	5.00				Internal pressure drop - Water [kPa]	12	
Refrigeration cycle			Compressor	Type	Scroll		Temperature difference	@ 35°C (nom)	5 K	
Refrigerant	R410A	Number of stages		1		@ 55°C		8 K		
		On/Off				@ 65°C		10 K		
		Power factor Cosφ		0.69		Renewable energy extraction side data				
		Winding resistance		1.24 Ohm		Operating limit temperatures source		MIN [°C]	-22	
		Refrigeration oil type	POE RL32-3MAF		MAX [°C]	40				
		Oil volume	3.38 L		for more see operating limits diagram			Evaporator	Port size	5/8" - 7/8" "
Maximal pressure - refrigerant [bar]	50		PED class	2		Type	Cu-coil /Al-fin			
				EVI - vapour injection with economizer			Count		1	
			APS System of liquid subcooling				Material	Cu/Al		
				Reversible operation (cooling)			Maximal operating pressure - refrigerant [bar]	29		
			Reverse defrosting with hot gas				Heat transfer medium	Air		
				Plate exchanger protection HG-BYPASS			Volume flow - Air [m3/h]	9060		
Electrical connection data			Line voltage [#~ V/Hz]		3~ 400/50		Internal pressure drop - Air [kPa]	0.023		
Current	nominal [A]	12.30		Temperature difference - Air	7 K		Possible outdoor units	1 x AiWa-VO-1200		
	maximal [A]	21.00			1 x AiWa-VO-1200-DUCT					
	starting [A]	32.12			Split System (compressor indoors)			Liquid line dimension (up to 8 meters IU/OU)	5/8"	
Softstart			-			Suction line dimension (up to 8 meters IU/OU)	7/8"			
Main safety			C32			Surcharge of refrigerant over 8 meter distance IU/OU	0.18 kg/m			
Control System			Main controller	SIEMENS	RVS 21 AVS 55.199		air - water SPLIT heat pumps indoor units are delivered without full refrigerant charge only with residual overpressure from testing			
Extension module	AVS75.3xx	AVS75.3xx		AVS75.372						
	Bus Clip-In	LPB OCI346		Modbus OCI352						
Online connection	Web server OZW672	ToSyMo								
Superheat controller				SEC61						

*** with accessory

WAMAK AW 27 EVI

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

Model	AW 27 EVI
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	23.0	kW	Seasonal space heating energy efficiency	η_s	174.7	%
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	20.3	kW	Tj = -7 °C	COPd	3.23	-
Tj = +2 °C	Pdh	24.6	kW	Tj = +2 °C	COPd	4.3	-
Tj = +7 °C	Pdh	28.9	kW	Tj = +7 °C	COPd	5.5	-
Tj = +12 °C	Pdh	33.7	kW	Tj = +12 °C	COPd	7.4	-
Tj = bivalent temperature	Pdh	19.7	kW	Tj = bivalent temperature	COPd	3.1	-
Tj = operation limit temperature	Pdh	14.0	kW	Tj = operation limit temperature	COPd	2.2	-
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	10.5	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: Rated air flow rate, outdoors			
Other items				For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			
Capacity control	fixed						
Sound power level							
indoors	Lwa	62	dB				
outdoors	Lwa	60	dB				
Annual energy consumption	Q _{HE}	10539.3	kWh				

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

WAMAK AW 27 EVI

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

Model	AW 27 EVI
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	24.0	kW	Seasonal space heating energy efficiency	η_s	133.6	%
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	21.0	kW	Tj = -7 °C	COPd	2.17	-
Tj = +2 °C	Pdh	24.8	kW	Tj = +2 °C	COPd	3.3	-
Tj = +7 °C	Pdh	29.0	kW	Tj = +7 °C	COPd	4.5	-
Tj = +12 °C	Pdh	33.8	kW	Tj = +12 °C	COPd	6.3	-
Tj = bivalent temperature	Pdh	20.7	kW	Tj = bivalent temperature	COPd	2.0	-
Tj = operation limit temperature	Pdh	15.5	kW	Tj = operation limit temperature	COPd	1.5	-
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	10.5	kW
Standby mode	Psb	0.010	kW	Type of energy input			electricity
Crankcase heater mode	Pck	0.050	kW				
Other items				For air-to-water heat pumps: Rated air flow rate, outdoors	-	9060	m ³ /h
Capacity control		fixed		For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	---	m ³ /h
Sound power level							
indoors	Lwa	62	dB				
outdoors	Lwa	60	dB				
Annual energy consumption	Q _{HE}	14504.6	kWh				

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ENERG Y IIA
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AW 27 EVI



55 °C

35 °C



62 dB

60 dB

■ 26	■ 24
■ 24	■ 23
■ 24	■ 22
kW	kW

2019

811/2013

AW 27 EVI

ErP Data

	55 °C	35 °C
Energy class	A++	A+++
η [%]	133.6	174.7
P_{rated} [kW]	24	23
Q_{HE} [kWh/y]	14505	10540
SCOP [-]	3.34	4.37
$T_{bivalent}$ [°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]

ZHI27K1P-TFD_R410A_1_AW

Operating conditions		Qh	P	COP
1	A7 / W30-35	29.0	6.4	4.56
2	A2 / W35	24.7	6.4	3.83
3	A-22 / W35	14.0	6.4	2.20
A	A-7 / W34	20.3	6.3	3.23
B	A2 / W30	24.6	5.7	4.29
C	A7 / W27	28.9	5.2	5.54
D	A12 / W24	33.7	4.5	7.45
E	A-10 / W35	19.7	6.4	3.06
F	A-7 / W34	20.3	6.3	3.23

SCOP DATA EN 14825:2018	
Average Climate / Low Temperature [35°C]	
SCOPon	4.51
SCOPnet	4.55
SCOP	4.37
η [%]	174.66
Label	A+++
Qh [kWh]	10539.35
Pdesignh [kW]	23.0
Tbivalent [°C]	-7.00

Average Climate / Medium Temperature [55°C]

Operating conditions		Qh	P	COP
1	A7 / W47-55	29.3	10.5	2.80
2	A2 / W55	25.2	10.5	2.41
3	A-22 / W55	15.5	9.8	1.47
A	A-7 / W52	21.0	9.7	2.17
B	A2 / W42	24.8	7.6	3.27
C	A7 / W36	29.0	6.5	4.45
D	A12 / W30	33.8	5.4	6.27
E	A-10 / W55	20.7	10.5	1.97
F	A-7 / W55	21.2	10.5	2.03

SCOP DATA EN 14825:2018	
Average Climate / Medium Temperature [55°C]	
SCOPon	3.42
SCOPnet	3.45
SCOP	3.34
η [%]	133.57
Label	A++
Qh [kWh]	14504.62
Pdesignh [kW]	24.0
Tbivalent [°C]	-7.00

Cooling performance data

Low temperature cooling W 12 / 7°C

Operating conditions		Qc	P	EER
A	A35 / W12-7	20.9	7.7	2.70
B	A30 / W12-7	21.7	6.9	3.16
C	A25 / W12-7	22.3	6.1	3.67
D	A20 / W12-7	22.9	5.4	4.24

SEER DATA EN 14825:2018 [W 12 / 7°C]	
SEERon	3.56
SEER	3.46
Qc [kWh]	4427.98
η [%]	138.31

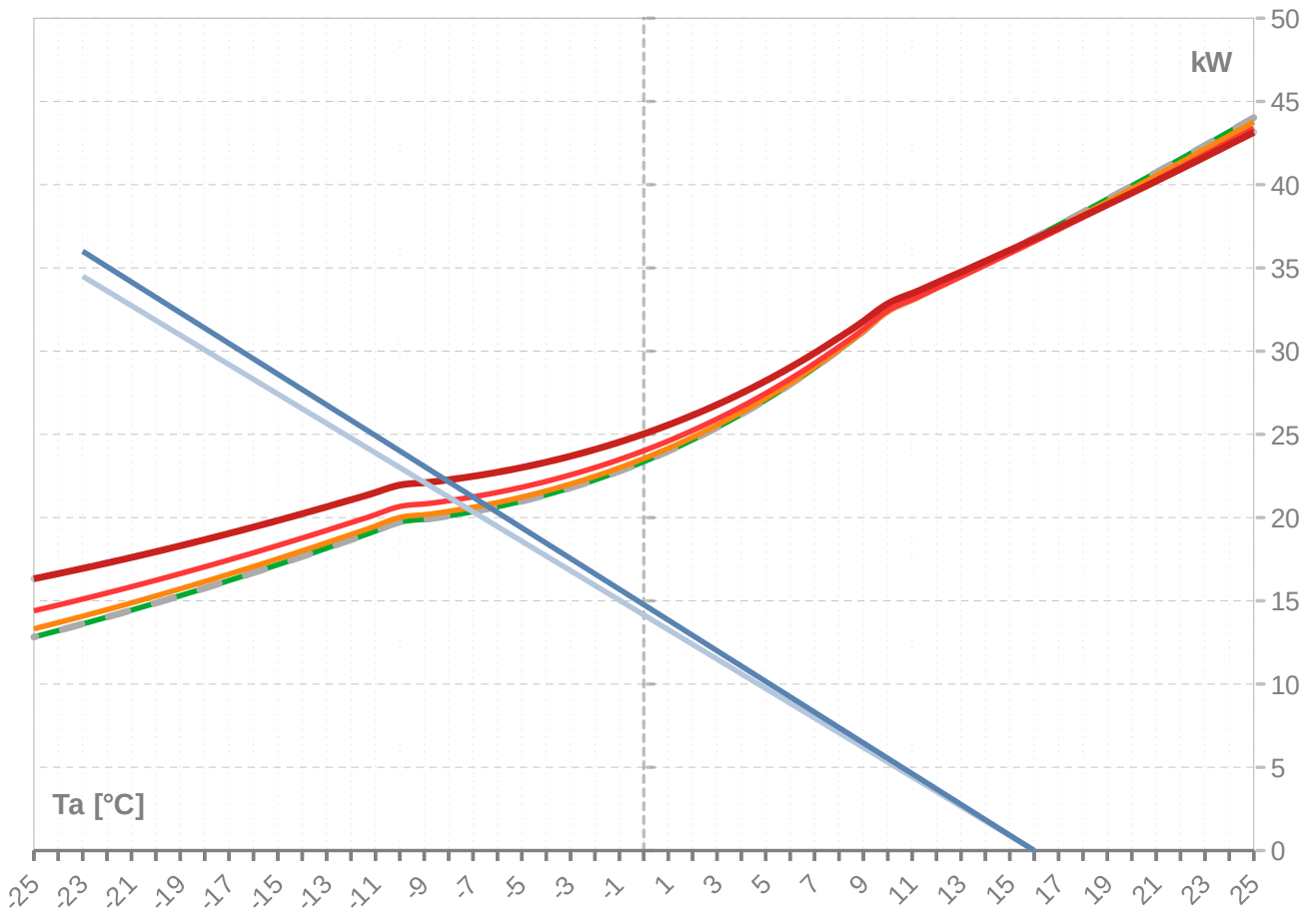
Radiant cooling W 23 / 18°C

Operating conditions		Qc	P	EER
A	A35 / W23-18	28.4	7.7	3.67
B	A30 / W23-18	29.3	6.1	4.26
C	A25 / W23-18	30.0	5.4	4.93
D	A20 / W23-18	30.7	4.6	5.68

SEER DATA EN 14825:2018 [W 23 / 18°C]	
SEERon	4.80
SEER	4.61
Qc [kWh]	3289.22
η [%]	184.29

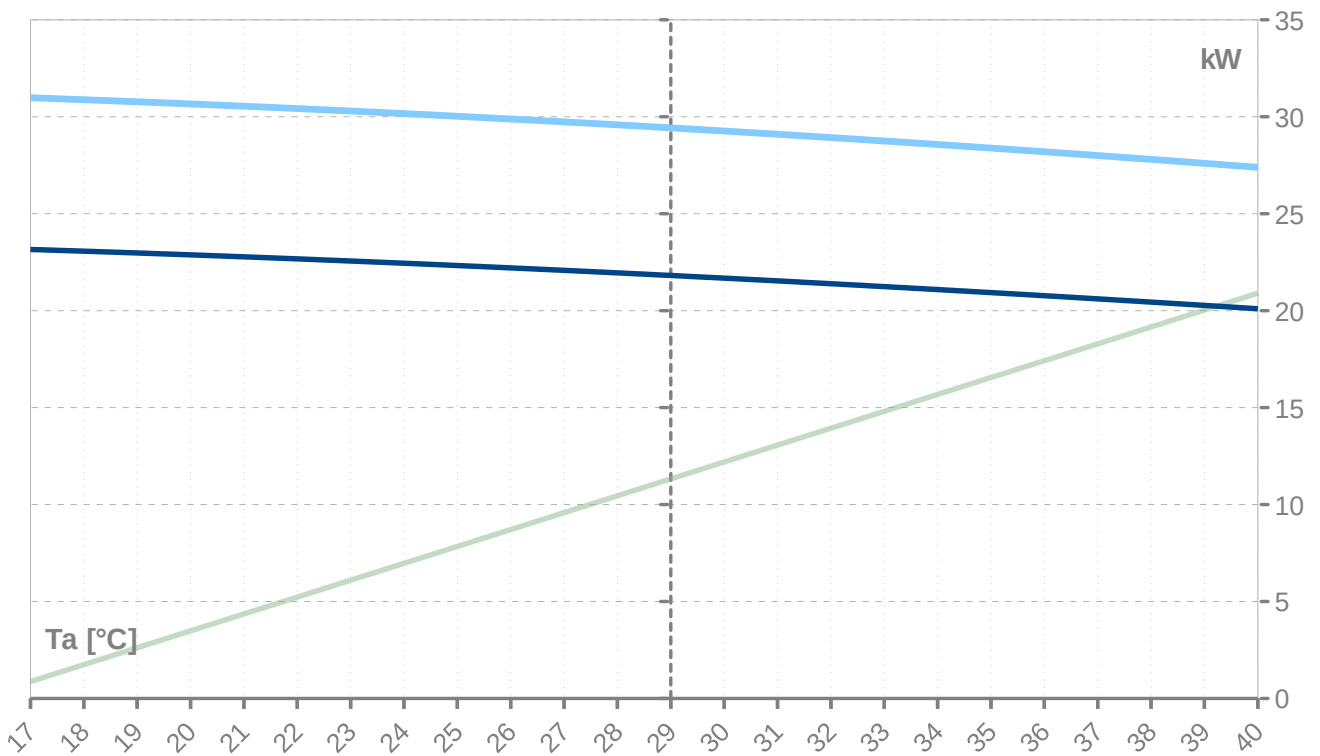
Performance lines - heating

- 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



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	37.6	37.6		6.0	6.0		6.30	11.9	11.9	
24	37.6	37.6		6.0	6.0		6.30	11.9	11.9	
23	37.6	37.6		6.0	6.0		6.30	11.9	11.9	
22	37.6	37.6		6.0	6.0		6.30	11.9	11.9	
21	37.6	37.6		6.0	6.0		6.30	11.9	11.9	
20	37.6	37.6		6.0	6.0		6.30	11.9	11.9	
19	37.6	37.6		6.0	6.0		6.30	11.9	11.9	
18	37.6	37.6		6.0	6.0		6.30	11.9	11.9	
17	37.6	37.6		6.0	6.0		6.30	11.9	11.9	
16	36.8	36.8	36.8	6.0	6.0	6.0	6.12	12.0	12.0	12.0
15	36.0	36.0	36.0	6.1	6.1	6.1	5.95	12.0	12.0	12.0
14	35.3	35.3	35.3	6.1	6.1	6.1	5.79	12.0	12.0	12.0
13	34.6	34.6	34.6	6.1	6.1	6.1	5.63	12.1	12.1	12.1
12	33.8	33.8	33.8	6.2	6.2	6.2	5.48	12.1	12.1	12.1
11	33.1	33.1	33.1	6.2	6.2	6.2	5.33	12.2	12.2	12.2
10	32.4	32.4	32.4	6.2	6.2	6.2	5.19	12.2	12.2	12.2
9	31.2	31.2	31.2	6.3	6.3	6.3	4.96	12.2	12.2	12.2
8	30.1	30.1	30.1	6.3	6.3	6.3	4.75	12.3	12.3	12.3
7	29.0	29.0	29.0	6.4	6.4	6.4	4.56	12.3	12.3	12.3
6	28.0	28.0	28.0	6.4	6.4	6.4	4.39	12.3	12.3	12.3
5	27.1	27.1	27.1	6.4	6.4	6.4	4.23	12.4	12.4	12.4
4	26.2	26.2	26.2	6.4	6.4	6.4	4.08	12.4	12.4	12.4
3	25.4	25.4	25.4	6.4	6.4	6.4	3.95	12.4	12.4	12.4
2	24.7	24.7	24.7	6.4	6.4	6.4	3.83	12.4	12.4	12.4
1	24.0	24.0	24.0	6.4	6.4	6.4	3.72	12.4	12.4	12.4
0	23.4	23.4	23.4	6.4	6.4	6.4	3.62	12.4	12.4	12.4
-1	22.8	22.8	22.8	6.4	6.4	6.4	3.53	12.5	12.5	12.5
-2	22.3	22.3	22.3	6.4	6.4	6.4	3.45	12.5	12.5	12.5
-3	21.8	21.8	21.8	6.4	6.4	6.4	3.38	12.5	12.5	12.5
-4	21.4	21.4	21.4	6.4	6.4	6.4	3.31	12.5	12.5	12.5
-5	21.0	21.0	21.0	6.4	6.4	6.4	3.26	12.5	12.5	12.5
-6	20.6	20.6	20.6	6.4	6.4	6.4	3.20	12.5	12.5	12.5
-7	20.4	20.4	20.4	6.4	6.4	6.4	3.16	12.5	12.5	12.5
-8	20.1	20.1	20.1	6.4	6.4	6.4	3.12	12.5	12.5	12.5
-9	19.9	19.9	19.9	6.4	6.4	6.4	3.09	12.5	12.5	12.5
-10	19.7	19.7	19.7	6.4	6.4	6.4	3.06	12.5	12.5	12.5
-11	19.2	19.2	19.2	6.4	6.4	6.4	2.98	12.5	12.5	12.5
-12	18.7	18.7	18.7	6.4	6.4	6.4	2.91	12.5	12.5	12.5
-13	18.2	18.2	18.2	6.4	6.4	6.4	2.83	12.5	12.5	12.5
-14	17.7	17.7	17.7	6.4	6.4	6.4	2.75	12.5	12.5	12.5
-15	17.2	17.2	17.2	6.4	6.4	6.4	2.68	12.4	12.4	12.4
-16	16.7	16.7	16.7	6.4	6.4	6.4	2.61	12.4	12.4	12.4
-17	16.2	16.2	16.2	6.4	6.4	6.4	2.54	12.4	12.4	12.4
-18	15.8	15.8	15.8	6.4	6.4	6.4	2.47	12.4	12.4	12.4
-19	15.3	15.3	15.3	6.4	6.4	6.4	2.40	12.4	12.4	12.4
-20	14.9	14.9	14.9	6.4	6.4	6.4	2.33	12.4	12.4	12.4
-21	14.4	14.4	14.4	6.4	6.4	6.4	2.27	12.4	12.4	12.4
-22	14.0	14.0	14.0	6.4	6.4	6.4	2.20	12.3	12.3	12.3
-23	13.6	13.6	13.6	6.4	6.4	6.4	2.14	12.3	12.3	12.3
-24	13.2	13.2	13.2	6.3	6.3	6.3	2.08	12.3	12.3	12.3
-25	12.8	12.8	12.8	6.3	6.3	6.3	2.02	12.3	12.3	12.3

* attention: operating limits not reflected in performance table

ZHI27K1P-TFD_R410A_1_AW

Th [°C]		45 °C								
Ta [°C]	Qh nom [kW]	Qh min [kW]	Qh max [kW]	Pin nom [kW]	Pin-min [kW]	Pin-max [kW]	COP kW / kW	I nom [A]	I min [A]	I max [A]
25	43.8	43.8	43.8	7.5	7.5	7.5	5.84	13.5	13.5	13.5
24	42.9	42.9	42.9	7.5	7.5	7.5	5.69	13.5	13.5	13.5
23	42.1	42.1	42.1	7.6	7.6	7.6	5.54	13.6	13.6	13.6
22	41.3	41.3	41.3	7.7	7.7	7.7	5.40	13.7	13.7	13.7
21	40.5	40.5	40.5	7.7	7.7	7.7	5.26	13.7	13.7	13.7
20	39.8	39.8	39.8	7.7	7.7	7.7	5.13	13.8	13.8	13.8
19	39.0	39.0	39.0	7.8	7.8	7.8	5.00	13.8	13.8	13.8
18	38.2	38.2	38.2	7.8	7.8	7.8	4.88	13.8	13.8	13.8
17	37.4	37.4	37.4	7.9	7.9	7.9	4.76	13.9	13.9	13.9
16	36.7	36.7	36.7	7.9	7.9	7.9	4.64	13.9	13.9	13.9
15	35.9	35.9	35.9	7.9	7.9	7.9	4.53	14.0	14.0	14.0
14	35.2	35.2	35.2	8.0	8.0	8.0	4.42	14.0	14.0	14.0
13	34.5	34.5	34.5	8.0	8.0	8.0	4.32	14.0	14.0	14.0
12	33.8	33.8	33.8	8.0	8.0	8.0	4.22	14.1	14.1	14.1
11	33.1	33.1	33.1	8.0	8.0	8.0	4.12	14.1	14.1	14.1
10	32.4	32.4	32.4	8.1	8.1	8.1	4.02	14.1	14.1	14.1
9	31.2	31.2	31.2	8.1	8.1	8.1	3.86	14.2	14.2	14.2
8	30.1	30.1	30.1	8.1	8.1	8.1	3.72	14.2	14.2	14.2
7	29.1	29.1	29.1	8.1	8.1	8.1	3.58	14.2	14.2	14.2
6	28.1	28.1	28.1	8.1	8.1	8.1	3.45	14.3	14.3	14.3
5	27.2	27.2	27.2	8.1	8.1	8.1	3.34	14.3	14.3	14.3
4	26.3	26.3	26.3	8.1	8.1	8.1	3.23	14.3	14.3	14.3
3	25.5	25.5	25.5	8.1	8.1	8.1	3.14	14.3	14.3	14.3
2	24.8	24.8	24.8	8.1	8.1	8.1	3.05	14.3	14.3	14.3
1	24.2	24.2	24.2	8.1	8.1	8.1	2.96	14.3	14.3	14.3
0	23.5	23.5	23.5	8.1	8.1	8.1	2.89	14.3	14.3	14.3
-1	23.0	23.0	23.0	8.1	8.1	8.1	2.82	14.3	14.3	14.3
-2	22.5	22.5	22.5	8.1	8.1	8.1	2.76	14.3	14.3	14.3
-3	22.0	22.0	22.0	8.1	8.1	8.1	2.70	14.3	14.3	14.3
-4	21.6	21.6	21.6	8.1	8.1	8.1	2.65	14.3	14.3	14.3
-5	21.2	21.2	21.2	8.1	8.1	8.1	2.61	14.3	14.3	14.3
-6	20.9	20.9	20.9	8.1	8.1	8.1	2.57	14.3	14.3	14.3
-7	20.6	20.6	20.6	8.1	8.1	8.1	2.54	14.3	14.3	14.3
-8	20.4	20.4	20.4	8.1	8.1	8.1	2.51	14.3	14.3	14.3
-9	20.2	20.2	20.2	8.1	8.1	8.1	2.48	14.3	14.3	14.3
-10	20.0	20.0	20.0	8.1	8.1	8.1	2.46	14.3	14.3	14.3
-11	19.5	19.5	19.5	8.1	8.1	8.1	2.40	14.3	14.3	14.3
-12	19.0	19.0	19.0	8.1	8.1	8.1	2.34	14.3	14.3	14.3
-13	18.5	18.5	18.5	8.1	8.1	8.1	2.28	14.3	14.3	14.3
-14	18.0	18.0	18.0	8.1	8.1	8.1	2.22	14.2	14.2	14.2
-15	17.5	17.5	17.5	8.1	8.1	8.1	2.16	14.2	14.2	14.2
-16	17.1	17.1	17.1	8.1	8.1	8.1	2.11	14.2	14.2	14.2
-17	16.6	16.6	16.6	8.1	8.1	8.1	2.05	14.2	14.2	14.2
-18	16.2	16.2	16.2	8.1	8.1	8.1	2.00	14.1	14.1	14.1
-19	15.7	15.7	15.7	8.1	8.1	8.1	1.94	14.1	14.1	14.1
-20	15.3	15.3	15.3	8.1	8.1	8.1	1.89	14.1	14.1	14.1
-21	14.9	14.9	14.9	8.1	8.1	8.1	1.84	14.1	14.1	14.1
-22	14.5	14.5	14.5	8.1	8.1	8.1	1.79	14.0	14.0	14.0
-23	14.1	14.1	14.1	8.1	8.1	8.1	1.74	14.0	14.0	14.0
-24	13.7	13.7	13.7	8.1	8.1	8.1	1.69	14.0	14.0	14.0
-25	13.3	13.3	13.3	8.1	8.1	8.1	1.64	13.9	13.9	13.9

* attention: operating limits not reflected in performance table

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	43.4	43.4	43.4	10.0	10.0	10.0	4.33	16.3	16.3	16.3
24	42.6	42.6	42.6	10.1	10.1	10.1	4.23	16.4	16.4	16.4
23	41.8	41.8	41.8	10.1	10.1	10.1	4.14	16.4	16.4	16.4
22	41.0	41.0	41.0	10.1	10.1	10.1	4.05	16.5	16.5	16.5
21	40.3	40.3	40.3	10.2	10.2	10.2	3.96	16.5	16.5	16.5
20	39.5	39.5	39.5	10.2	10.2	10.2	3.87	16.6	16.6	16.6
19	38.8	38.8	38.8	10.2	10.2	10.2	3.79	16.6	16.6	16.6
18	38.0	38.0	38.0	10.3	10.3	10.3	3.71	16.7	16.7	16.7
17	37.3	37.3	37.3	10.3	10.3	10.3	3.63	16.7	16.7	16.7
16	36.6	36.6	36.6	10.3	10.3	10.3	3.55	16.8	16.8	16.8
15	35.9	35.9	35.9	10.3	10.3	10.3	3.47	16.8	16.8	16.8
14	35.2	35.2	35.2	10.4	10.4	10.4	3.40	16.8	16.8	16.8
13	34.5	34.5	34.5	10.4	10.4	10.4	3.32	16.9	16.9	16.9
12	33.8	33.8	33.8	10.4	10.4	10.4	3.25	16.9	16.9	16.9
11	33.1	33.1	33.1	10.4	10.4	10.4	3.18	16.9	16.9	16.9
10	32.4	32.4	32.4	10.4	10.4	10.4	3.12	16.9	16.9	16.9
9	31.3	31.3	31.3	10.4	10.4	10.4	3.00	17.0	17.0	17.0
8	30.3	30.3	30.3	10.4	10.4	10.4	2.90	17.0	17.0	17.0
7	29.3	29.3	29.3	10.5	10.5	10.5	2.80	17.0	17.0	17.0
6	28.3	28.3	28.3	10.5	10.5	10.5	2.71	17.0	17.0	17.0
5	27.5	27.5	27.5	10.5	10.5	10.5	2.62	17.0	17.0	17.0
4	26.7	26.7	26.7	10.5	10.5	10.5	2.55	17.0	17.0	17.0
3	25.9	25.9	25.9	10.5	10.5	10.5	2.48	17.0	17.0	17.0
2	25.2	25.2	25.2	10.5	10.5	10.5	2.41	17.0	17.0	17.0
1	24.6	24.6	24.6	10.5	10.5	10.5	2.35	17.0	17.0	17.0
0	24.0	24.0	24.0	10.5	10.5	10.5	2.29	17.0	17.0	17.0
-1	23.5	23.5	23.5	10.5	10.5	10.5	2.24	17.0	17.0	17.0
-2	23.0	23.0	23.0	10.5	10.5	10.5	2.20	17.0	17.0	17.0
-3	22.6	22.6	22.6	10.5	10.5	10.5	2.15	17.0	17.0	17.0
-4	22.2	22.2	22.2	10.5	10.5	10.5	2.12	17.0	17.0	17.0
-5	21.8	21.8	21.8	10.5	10.5	10.5	2.08	17.0	17.0	17.0
-6	21.5	21.5	21.5	10.5	10.5	10.5	2.05	17.0	17.0	17.0
-7	21.2	21.2	21.2	10.5	10.5	10.5	2.03	17.0	17.0	17.0
-8	21.0	21.0	21.0	10.5	10.5	10.5	2.01	16.9	16.9	16.9
-9	20.8	20.8	20.8	10.5	10.5	10.5	1.99	16.9	16.9	16.9
-10	20.7	20.7	20.7	10.5	10.5	10.5	1.97	16.9	16.9	16.9
-11	20.2	20.2	20.2	10.5	10.5	10.5	1.93	16.9	16.9	16.9
-12	19.7	19.7	19.7	10.5	10.5	10.5	1.88	16.9	16.9	16.9
-13	19.2	19.2	19.2	10.5	10.5	10.5	1.84	16.9	16.9	16.9
-14	18.8	18.8	18.8	10.5	10.5	10.5	1.79	16.8	16.8	16.8
-15	18.3	18.3	18.3	10.5	10.5	10.5	1.75	16.8	16.8	16.8
-16	17.9	17.9	17.9	10.5	10.5	10.5	1.71	16.8	16.8	16.8
-17	17.5	17.5	17.5	10.5	10.5	10.5	1.66	16.7	16.7	16.7
-18	17.0	17.0	17.0	10.5	10.5	10.5	1.62	16.7	16.7	16.7
-19	16.6	16.6	16.6	10.5	10.5	10.5	1.58	16.6	16.6	16.6
-20	16.2	16.2	16.2	10.5	10.5	10.5	1.54	16.6	16.6	16.6
-21	15.8	15.8	15.8	10.5	10.5	10.5	1.51	16.6	16.6	16.6
-22	15.5	15.5	15.5	10.5	10.5	10.5	1.47	16.5	16.5	16.5
-23	15.1	15.1	15.1	10.6	10.6	10.6	1.43	16.5	16.5	16.5
-24	14.7	14.7	14.7	10.6	10.6	10.6	1.39	16.4	16.4	16.4
-25	14.4	14.4	14.4	10.6	10.6	10.6	1.36	16.4	16.4	16.4

* attention: operating limits not reflected in performance table

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	43.1	43.1	43.1	13.2	13.2	13.2	3.26	20.3	20.3	20.3
24	42.4	42.4	42.4	13.3	13.3	13.3	3.19	20.3	20.3	20.3
23	41.7	41.7	41.7	13.3	13.3	13.3	3.13	20.4	20.4	20.4
22	40.9	40.9	40.9	13.3	13.3	13.3	3.07	20.4	20.4	20.4
21	40.2	40.2	40.2	13.4	13.4	13.4	3.01	20.5	20.5	20.5
20	39.5	39.5	39.5	13.4	13.4	13.4	2.95	20.5	20.5	20.5
19	38.8	38.8	38.8	13.4	13.4	13.4	2.89	20.5	20.5	20.5
18	38.1	38.1	38.1	13.4	13.4	13.4	2.84	20.6	20.6	20.6
17	37.4	37.4	37.4	13.4	13.4	13.4	2.78	20.6	20.6	20.6
16	36.7	36.7	36.7	13.5	13.5	13.5	2.73	20.6	20.6	20.6
15	36.1	36.1	36.1	13.5	13.5	13.5	2.67	20.7	20.7	20.7
14	35.4	35.4	35.4	13.5	13.5	13.5	2.62	20.7	20.7	20.7
13	34.7	34.7	34.7	13.5	13.5	13.5	2.57	20.7	20.7	20.7
12	34.1	34.1	34.1	13.5	13.5	13.5	2.52	20.7	20.7	20.7
11	33.5	33.5	33.5	13.5	13.5	13.5	2.47	20.8	20.8	20.8
10	32.8	32.8	32.8	13.5	13.5	13.5	2.42	20.8	20.8	20.8
9	31.8	31.8	31.8	13.6	13.6	13.6	2.34	20.8	20.8	20.8
8	30.8	30.8	30.8	13.6	13.6	13.6	2.27	20.8	20.8	20.8
7	29.9	29.9	29.9	13.6	13.6	13.6	2.20	20.8	20.8	20.8
6	29.0	29.0	29.0	13.6	13.6	13.6	2.13	20.8	20.8	20.8
5	28.2	28.2	28.2	13.6	13.6	13.6	2.07	20.8	20.8	20.8
4	27.5	27.5	27.5	13.6	13.6	13.6	2.02	20.8	20.8	20.8
3	26.8	26.8	26.8	13.6	13.6	13.6	1.97	20.8	20.8	20.8
2	26.1	26.1	26.1	13.6	13.6	13.6	1.92	20.8	20.8	20.8
1	25.6	25.6	25.6	13.6	13.6	13.6	1.87	20.8	20.8	20.8
0	25.0	25.0	25.0	13.6	13.6	13.6	1.83	20.7	20.7	20.7
-1	24.5	24.5	24.5	13.7	13.7	13.7	1.80	20.7	20.7	20.7
-2	24.1	24.1	24.1	13.7	13.7	13.7	1.76	20.7	20.7	20.7
-3	23.7	23.7	23.7	13.7	13.7	13.7	1.73	20.7	20.7	20.7
-4	23.3	23.3	23.3	13.7	13.7	13.7	1.71	20.7	20.7	20.7
-5	23.0	23.0	23.0	13.7	13.7	13.7	1.68	20.6	20.6	20.6
-6	22.7	22.7	22.7	13.7	13.7	13.7	1.66	20.6	20.6	20.6
-7	22.5	22.5	22.5	13.7	13.7	13.7	1.64	20.6	20.6	20.6
-8	22.3	22.3	22.3	13.7	13.7	13.7	1.63	20.6	20.6	20.6
-9	22.1	22.1	22.1	13.7	13.7	13.7	1.61	20.6	20.6	20.6
-10	21.9	21.9	21.9	13.7	13.7	13.7	1.60	20.6	20.6	20.6
-11	21.5	21.5	21.5	13.7	13.7	13.7	1.57	20.5	20.5	20.5
-12	21.1	21.1	21.1	13.7	13.7	13.7	1.53	20.5	20.5	20.5
-13	20.6	20.6	20.6	13.7	13.7	13.7	1.50	20.4	20.4	20.4
-14	20.2	20.2	20.2	13.8	13.8	13.8	1.47	20.4	20.4	20.4
-15	19.8	19.8	19.8	13.8	13.8	13.8	1.44	20.4	20.4	20.4
-16										
-17										
-18										
-19										
-20										
-21										
-22										
-23										
-24										
-25										

* attention: operating limits not reflected in performance table

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	20.1	20.1	20.1	8.8	8.8	8.8	2.29	15.0	15.0	15.0
39	20.3	20.3	20.3	8.5	8.5	8.5	2.37	14.7	14.7	14.7
38	20.4	20.4	20.4	8.3	8.3	8.3	2.45	14.5	14.5	14.5
37	20.6	20.6	20.6	8.1	8.1	8.1	2.53	14.3	14.3	14.3
36	20.8	20.8	20.8	7.9	7.9	7.9	2.62	14.0	14.0	14.0
35	20.9	20.9	20.9	7.7	7.7	7.7	2.70	13.8	13.8	13.8
34	21.1	21.1	21.1	7.6	7.6	7.6	2.79	13.6	13.6	13.6
33	21.2	21.2	21.2	7.4	7.4	7.4	2.88	13.4	13.4	13.4
32	21.4	21.4	21.4	7.2	7.2	7.2	2.97	13.2	13.2	13.2
31	21.5	21.5	21.5	7.0	7.0	7.0	3.06	13.0	13.0	13.0
30	21.7	21.7	21.7	6.9	6.9	6.9	3.16	12.8	12.8	12.8
29	21.8	21.8	21.8	6.7	6.7	6.7	3.26	12.7	12.7	12.7
28	21.9	21.9	21.9	6.5	6.5	6.5	3.35	12.5	12.5	12.5
27	22.1	22.1	22.1	6.4	6.4	6.4	3.46	12.4	12.4	12.4
26	22.2	22.2	22.2	6.2	6.2	6.2	3.56	12.2	12.2	12.2
25	22.3	22.3	22.3	6.1	6.1	6.1	3.67	12.1	12.1	12.1
24	22.4	22.4	22.4	5.9	5.9	5.9	3.77	11.9	11.9	11.9
23	22.6	22.6	22.6	5.8	5.8	5.8	3.89	11.8	11.8	11.8
22	22.7	22.7	22.7	5.7	5.7	5.7	4.00	11.7	11.7	11.7
21	22.8	22.8	22.8	5.5	5.5	5.5	4.12	11.5	11.5	11.5
20	22.9	22.9	22.9	5.4	5.4	5.4	4.24	11.4	11.4	11.4
19	23.0	23.0	23.0	5.3	5.3	5.3	4.36	11.3	11.3	11.3
18	23.1	23.1	23.1	5.1	5.1	5.1	4.49	11.2	11.2	11.2
17	23.2	23.2	23.2	5.0	5.0	5.0	4.62	11.1	11.1	11.1

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	27.4	27.4	27.4	8.8	8.8	8.8	3.13	14.8	14.8	14.8
39	27.6	27.6	27.6	8.5	8.5	8.5	3.23	14.5	14.5	14.5
38	27.8	27.8	27.8	8.3	8.3	8.3	3.34	14.2	14.2	14.2
37	28.0	28.0	28.0	8.1	8.1	8.1	3.44	14.0	14.0	14.0
36	28.2	28.2	28.2	7.9	7.9	7.9	3.55	13.8	13.8	13.8
35	28.4	28.4	28.4	7.7	7.7	7.7	3.67	13.6	13.6	13.6
34	28.6	28.6	28.6	7.6	7.6	7.6	3.78	13.3	13.3	13.3
33	28.7	28.7	28.7	7.4	7.4	7.4	3.90	13.1	13.1	13.1
32	28.9	28.9	28.9	7.2	7.2	7.2	4.02	12.9	12.9	12.9
31	29.1	29.1	29.1	7.0	7.0	7.0	4.14	12.7	12.7	12.7
30	29.3	29.3	29.3	6.9	6.9	6.9	4.26	12.6	12.6	12.6
29	29.4	29.4	29.4	6.7	6.7	6.7	4.39	12.4	12.4	12.4
28	29.6	29.6	29.6	6.5	6.5	6.5	4.52	12.2	12.2	12.2
27	29.7	29.7	29.7	6.4	6.4	6.4	4.65	12.1	12.1	12.1
26	29.9	29.9	29.9	6.2	6.2	6.2	4.79	11.9	11.9	11.9
25	30.0	30.0	30.0	6.1	6.1	6.1	4.93	11.7	11.7	11.7
24	30.2	30.2	30.2	5.9	5.9	5.9	5.07	11.6	11.6	11.6
23	30.3	30.3	30.3	5.8	5.8	5.8	5.22	11.5	11.5	11.5
22	30.4	30.4	30.4	5.7	5.7	5.7	5.37	11.3	11.3	11.3
21	30.5	30.5	30.5	5.5	5.5	5.5	5.52	11.2	11.2	11.2
20	30.7	30.7	30.7	5.4	5.4	5.4	5.68	11.1	11.1	11.1
19	30.8	30.8	30.8	5.3	5.3	5.3	5.84	11.0	11.0	11.0
18	30.9	30.9	30.9	5.1	5.1	5.1	6.01	10.9	10.9	10.9
17	31.0	31.0	31.0	5.0	5.0	5.0	6.18	10.8	10.8	10.8

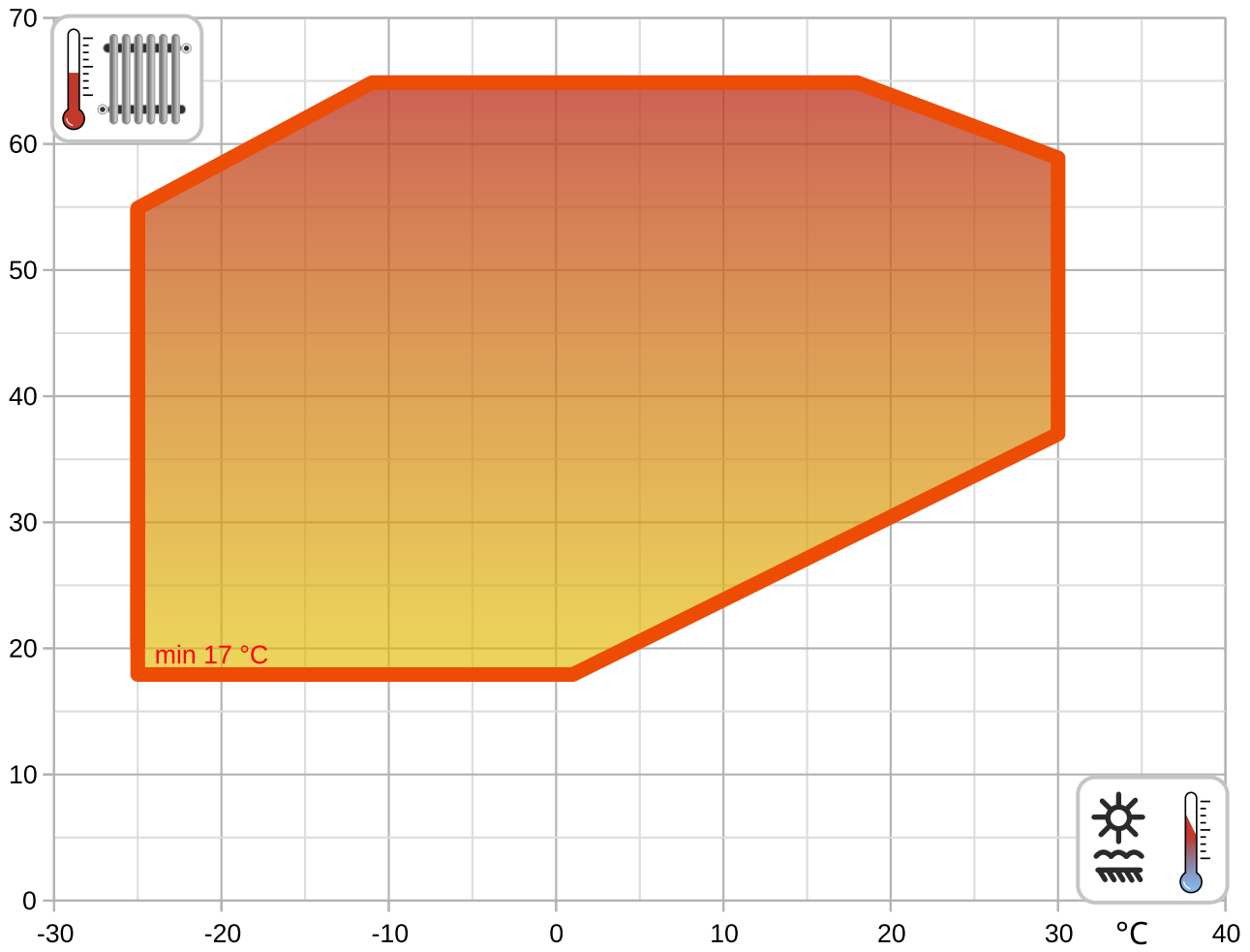
* attention: operating limits not reflected in performance table

LEGENDE:

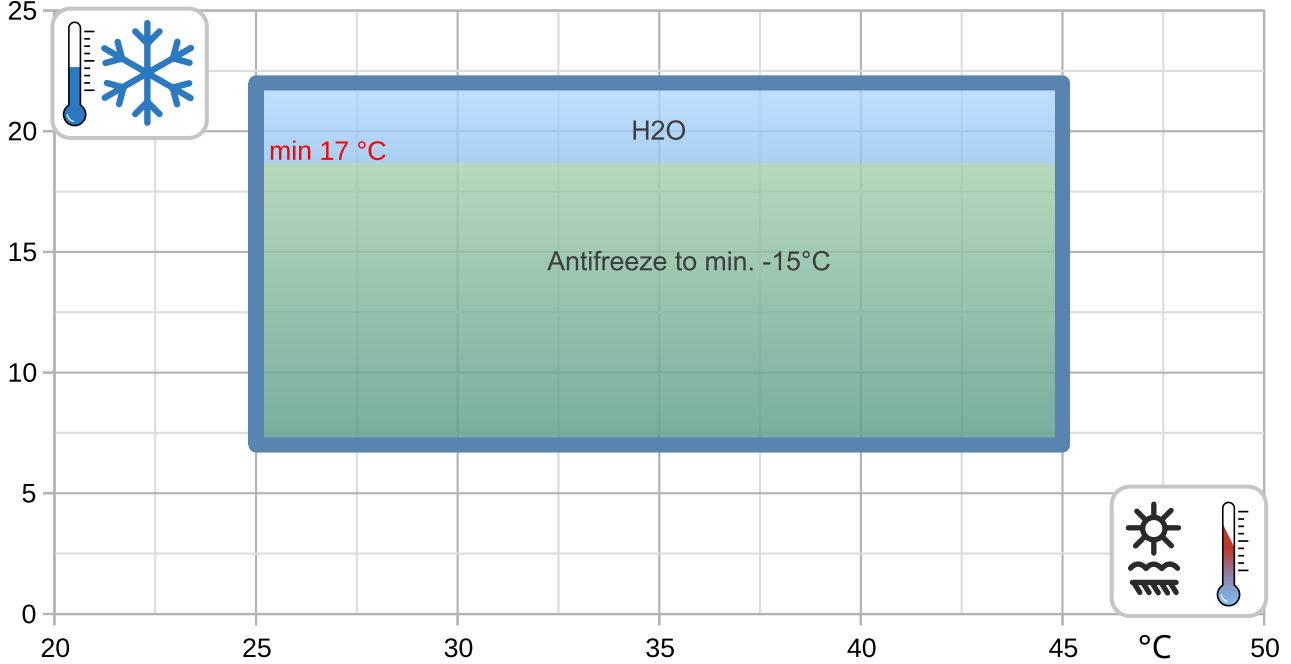
Ts-IN: Temperature renewable source - inlet [°C]
Th-OU: Temperature heating - outlet (flow) [°C]
Tc-OU: Temperature cooling - outlet (flow) [°C]
Qh nom: Heating capacity nominal
Qh min: Heating capacity minimal
Qh max: Heating capacity maximal
Pin nom: Power input at nominal heating capacity
Pin min: 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

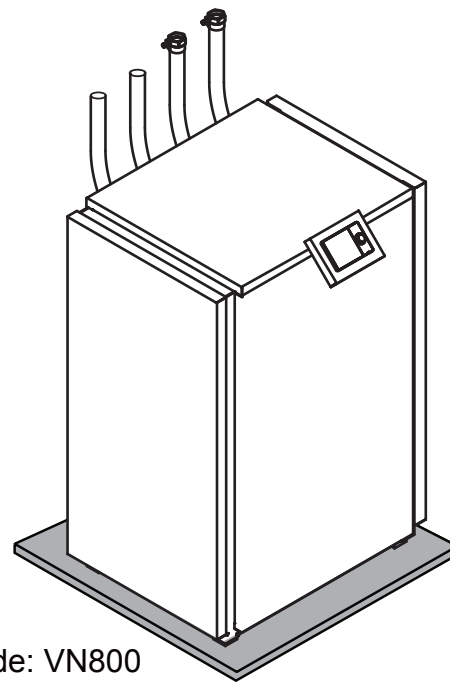
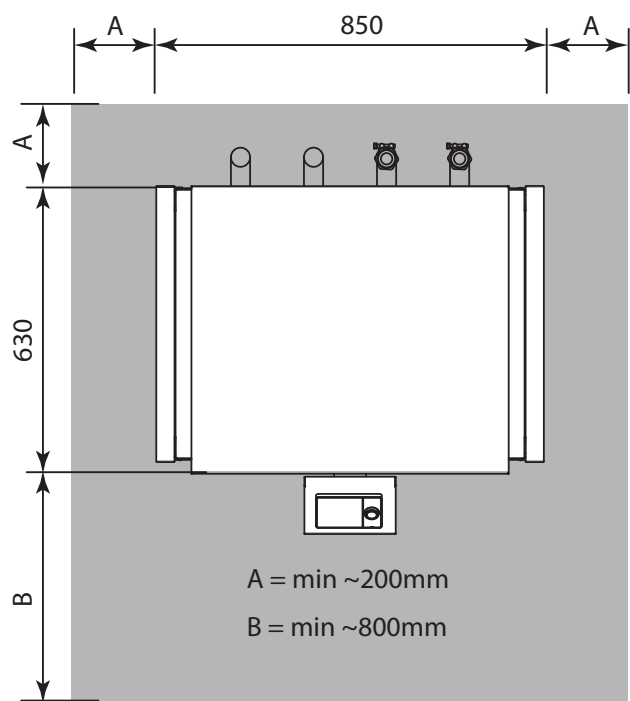
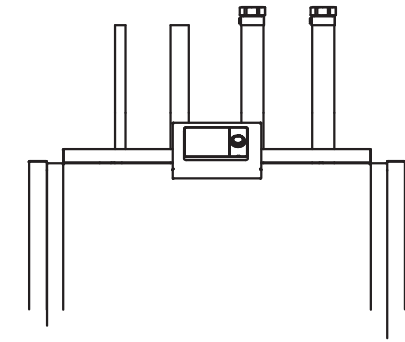
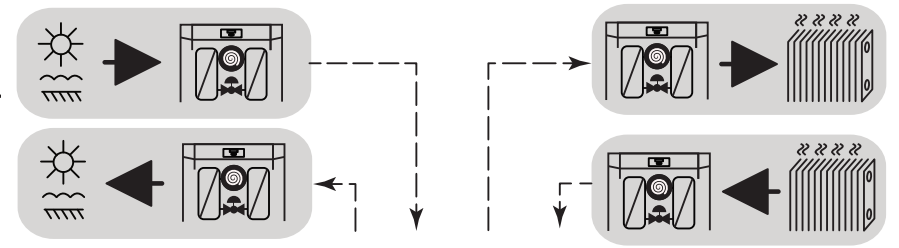
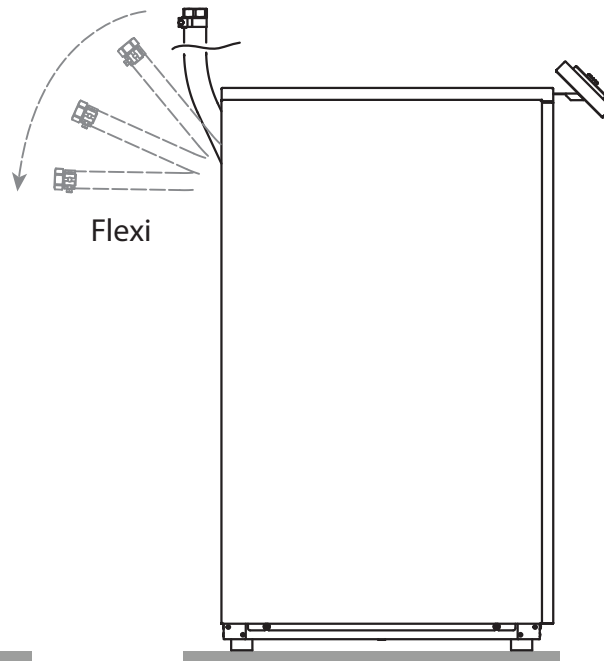
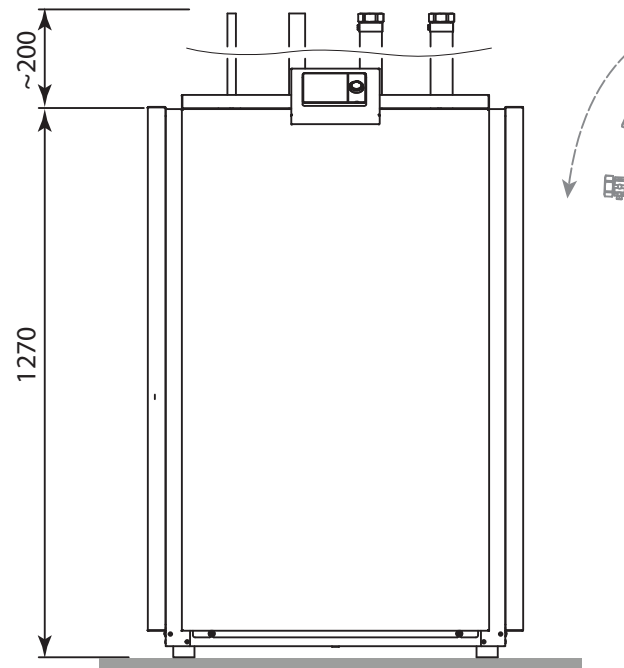
Operating limits

°C

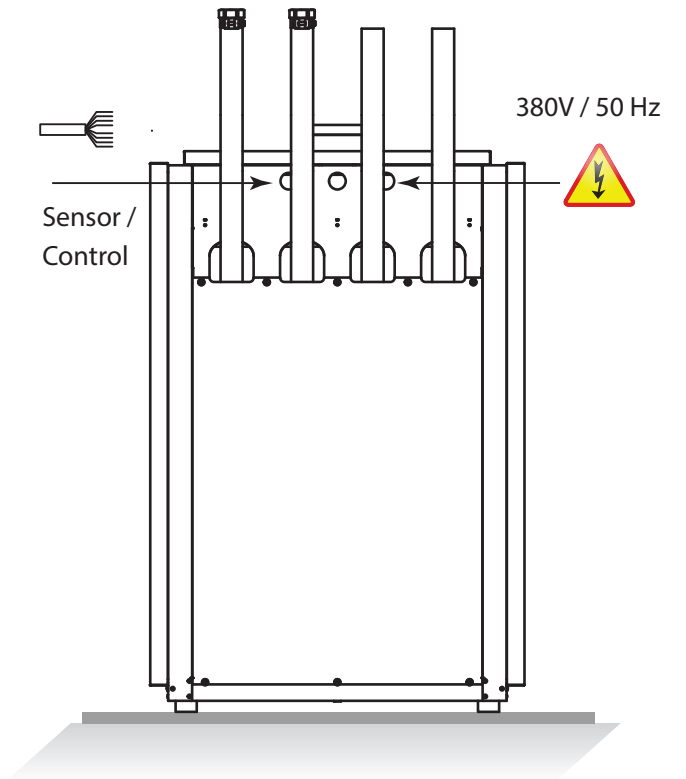


°C





int. code: VN800



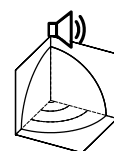
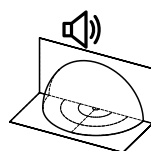
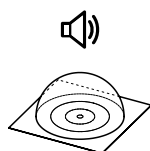
WAMAK AW 27 EVI - Split unit variant: AiWa-VO-1200



Enclosure type: AiWa-VO-1200			Evaporator	
Article	WAV01200		Type	Cu-coil /Al-fin "
Basic dimensions	Height [mm]	1240	Port size	5/8" - 7/8" "
	Width [mm]	1420	Heat transfer medium	Air
	Length [mm]	710	Volume flow - Air [m3/h]	9060
Weight [kg]	150		Internal pressure drop - Air [kPa]	0.023
Colour	Gray		Temperature difference - Air	7 K
Enclosure IP Class	IP44		Expansion valve	EEV
Fan	800 mm			
Number of fans	1		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

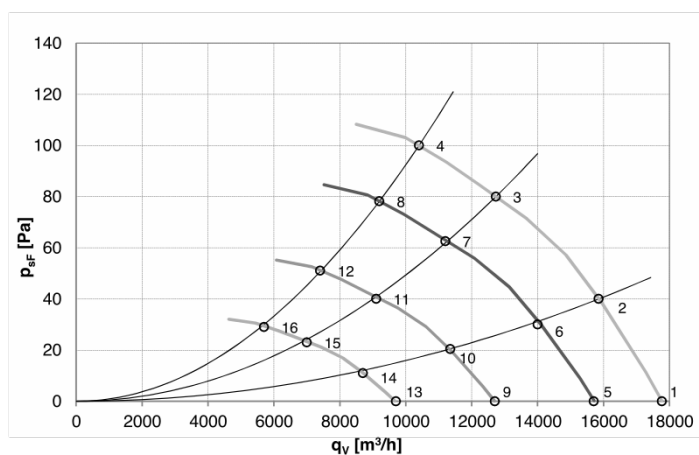
Acoustic power L_w

59.8 dB(A)

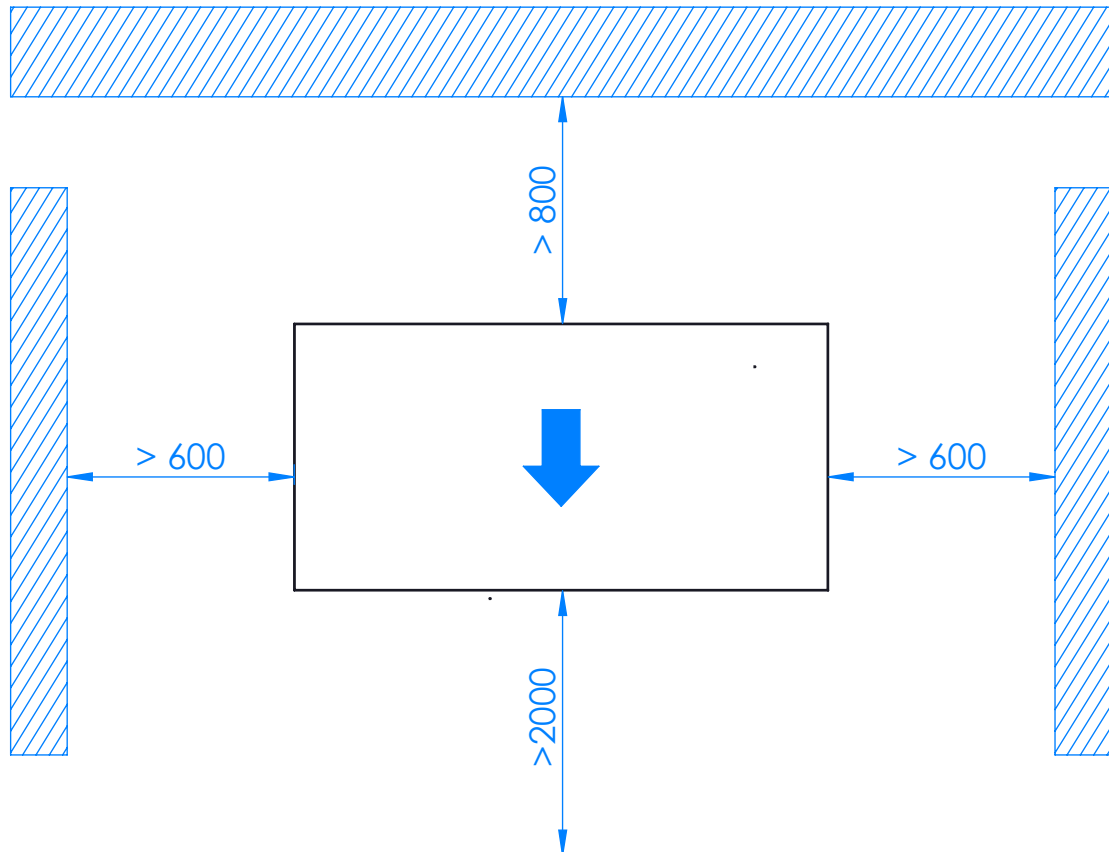
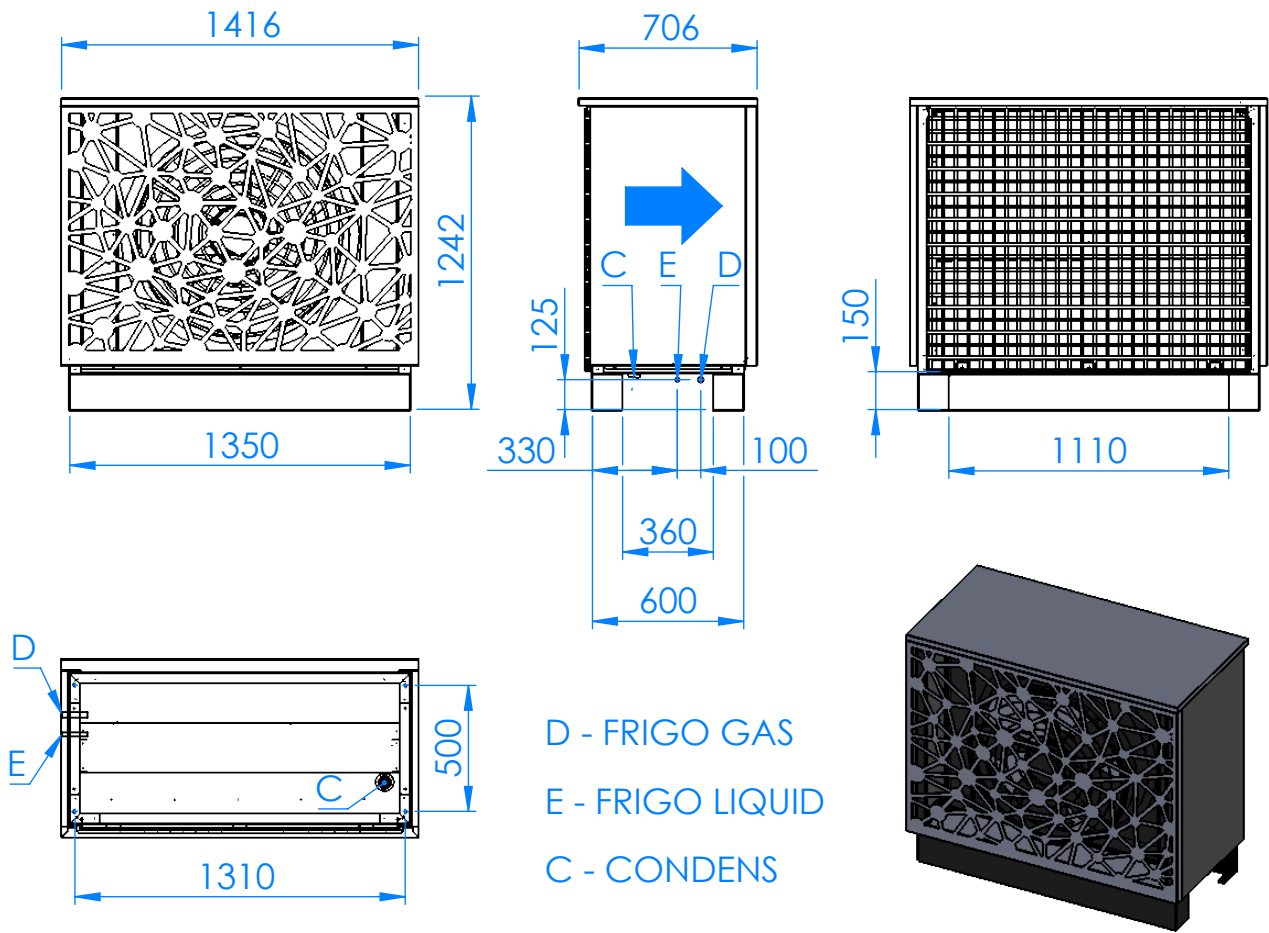


Distance [m]	1				5				10				15			
	1	5	10	15	1	5	10	15	1	5	10	15	1	5	10	15
Acoustic pressure L_p [dB(A)]	54.8	40.8	34.8	31.3	57.8	43.8	37.8	34.3	51.8	37.8	31.8	28.3				

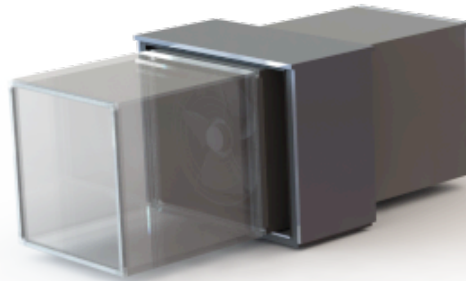
EC Fan 800mm



	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



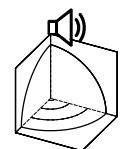
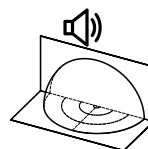
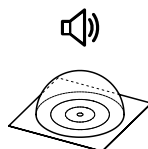
WAMAK AW 27 EVI - Split unit variant: AiWa-VO-1200-DUCT



Enclosure type: AiWa-VO-1200-DUCT			Evaporator	
Article	WAVID120		Type	Cu-coil /Al-fin "
Basic dimensions	Height [mm]	1240	Port size	5/8" - 7/8" "
	Width [mm]	1420	Heat transfer medium	Air
	Length [mm]	710	Volume flow - Air [m3/h]	9060
Weight [kg]	150		Internal pressure drop - Air [kPa]	0.023
Colour	Gray		Temperature difference - Air	7 K
Enclosure IP Class	IP44		Expansion valve	EEV
Fan	800 mm			
Number of fans	1		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

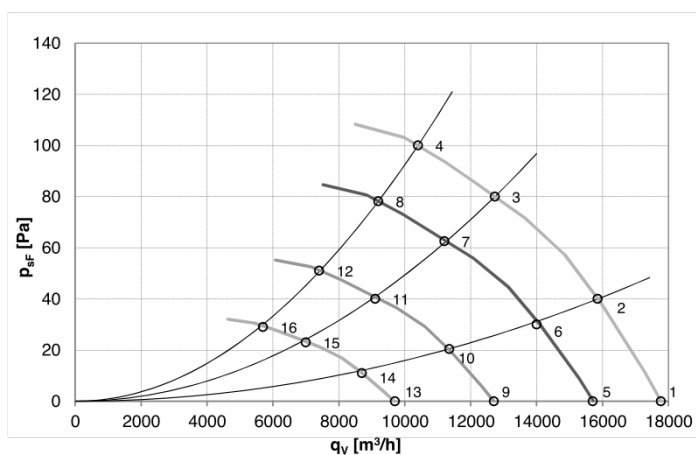
Acoustic power L_w

58.3 dB(A)

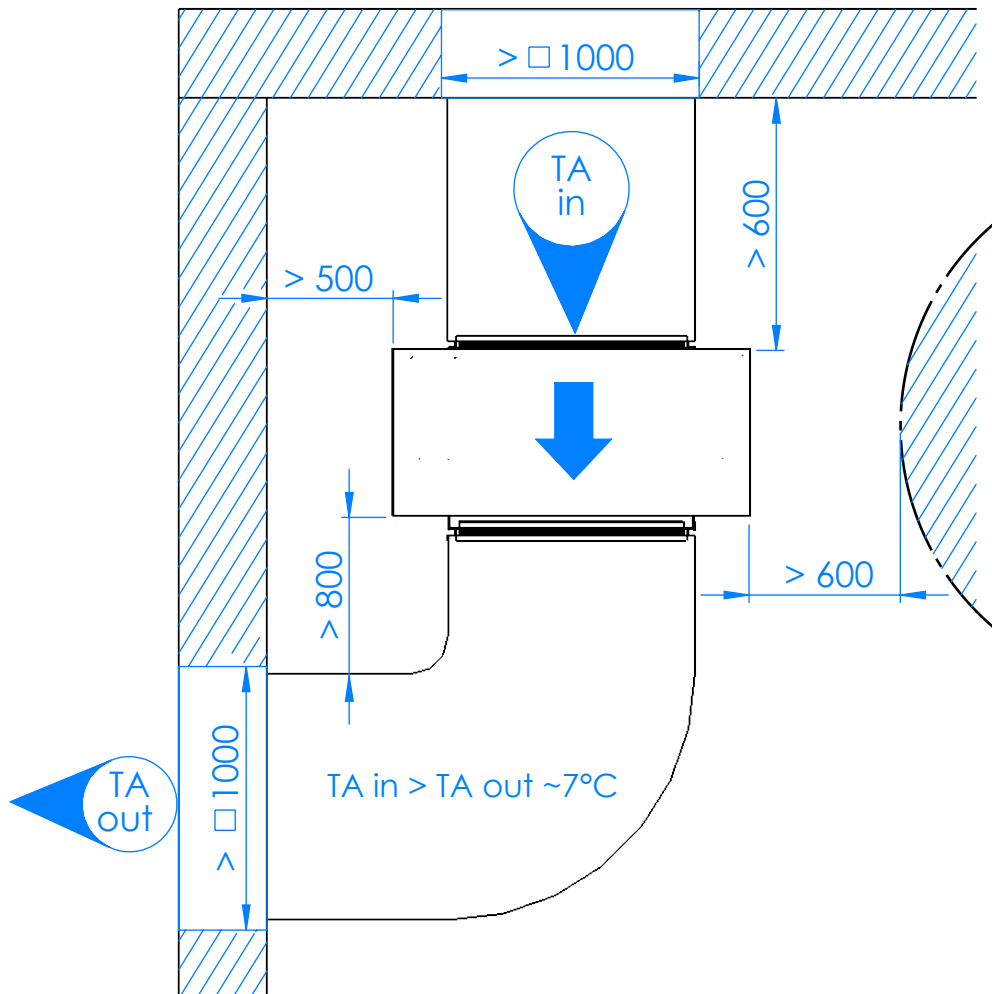
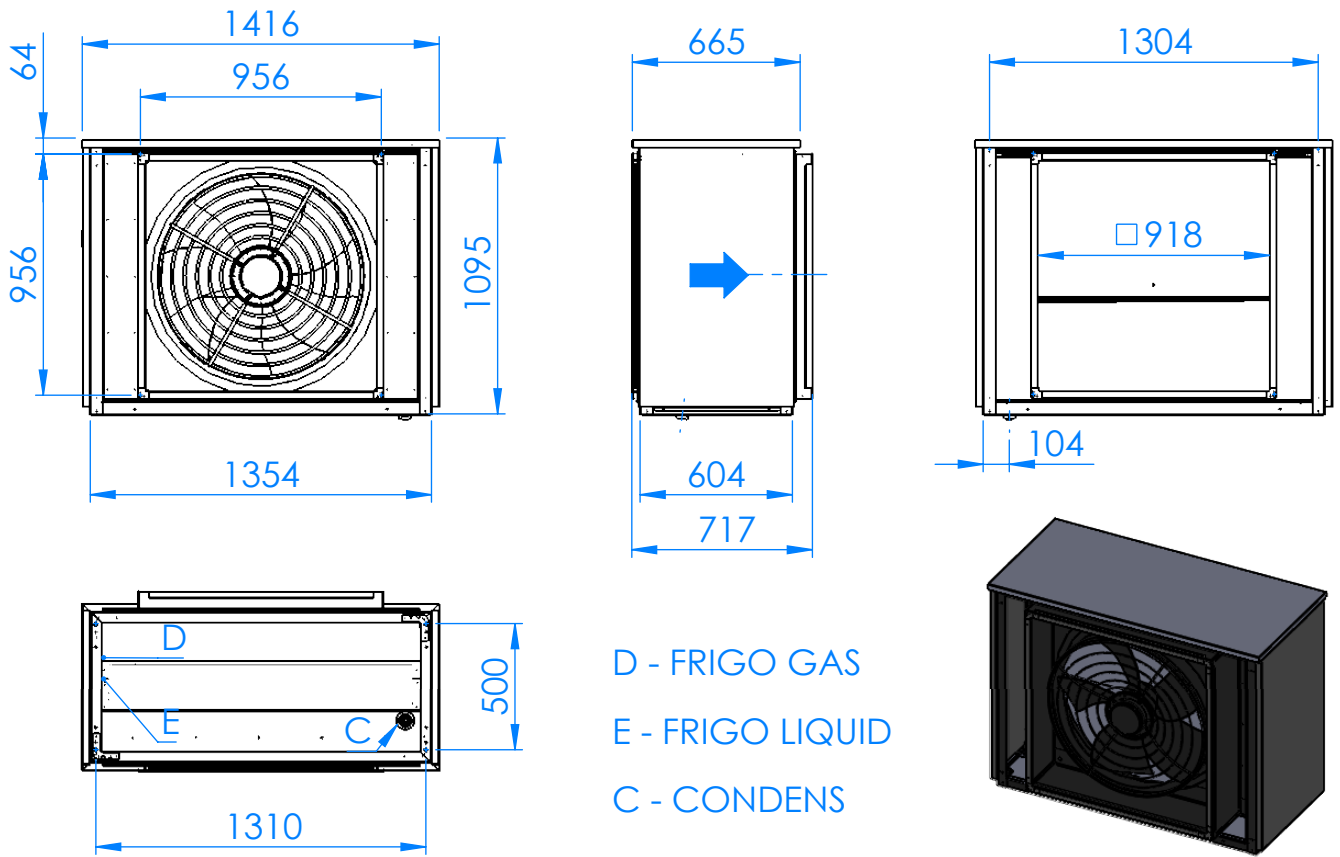


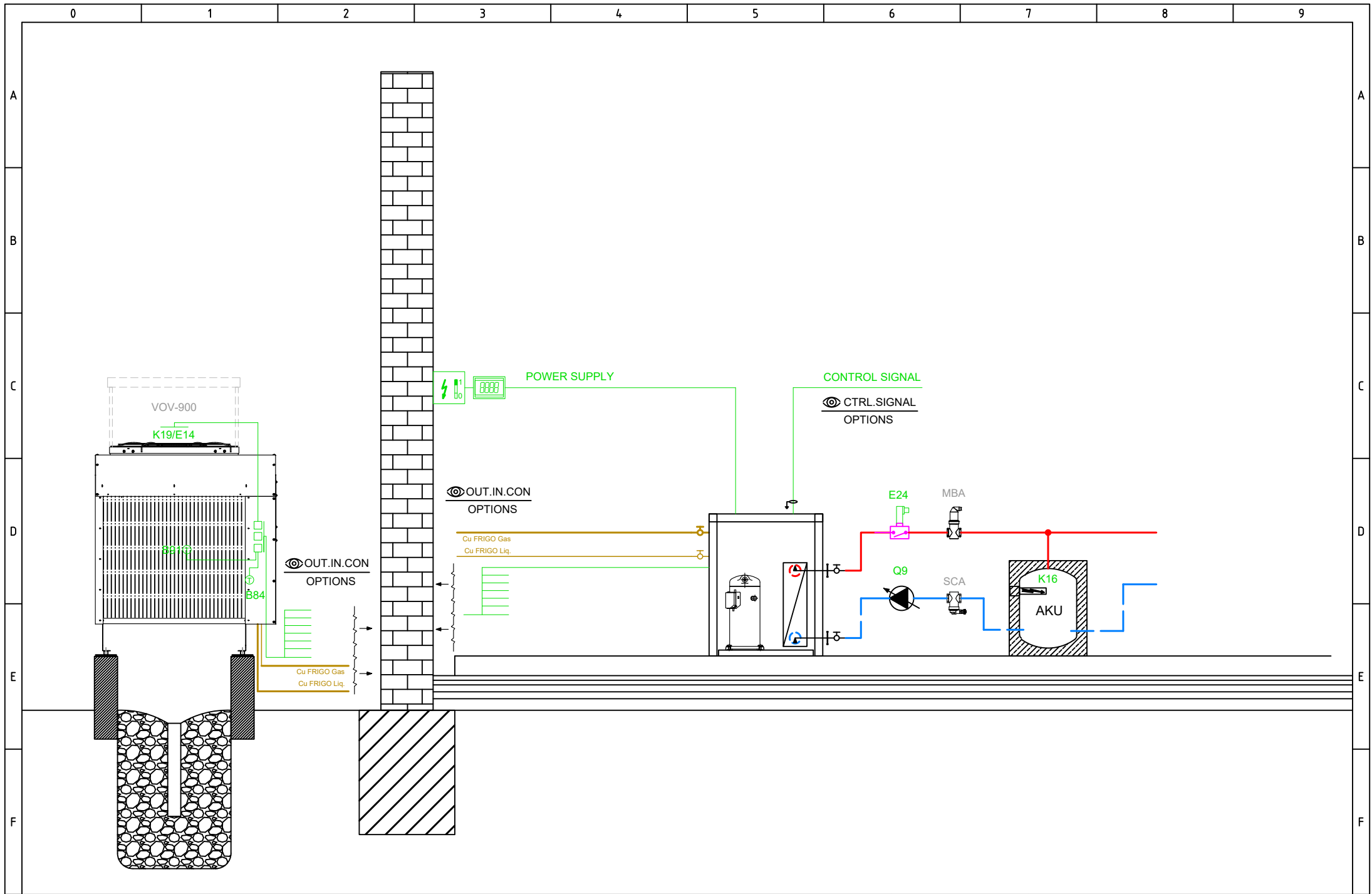
Distance [m]	1				5				10				15			
	1	5	10	15	1	5	10	15	1	5	10	15	1	5	10	15
Acoustic pressure L _p [dB(A)]	53.3	39.3	33.3	29.8	56.3	42.3	36.3	32.8	50.3	36.3	30.3	26.8				

EC Fan 800mm

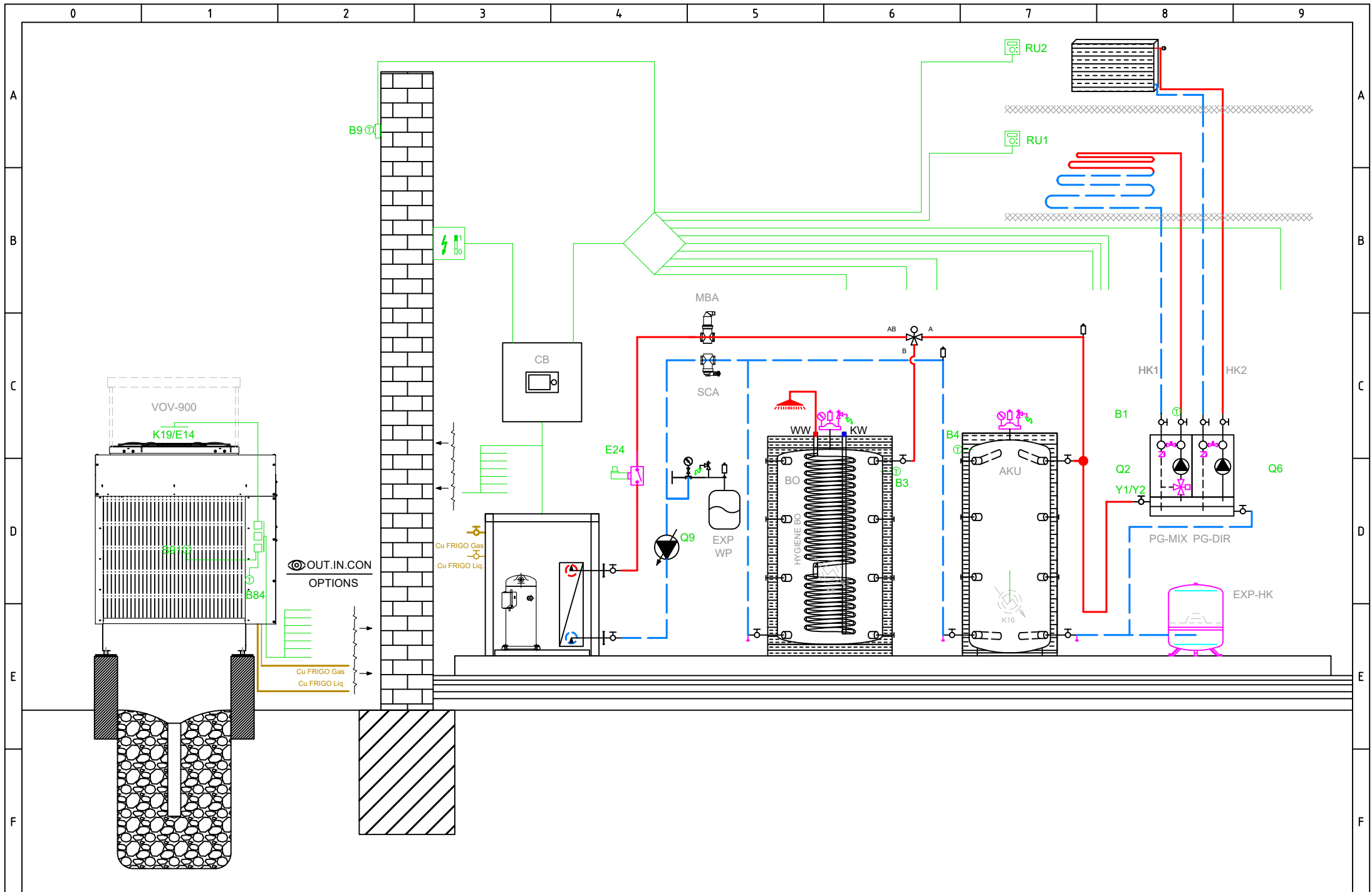


	U [V]	f [Hz]	n [RPM]	q _v [m ³ /h]	P _{sF} [Pa]	P _e [W]	I [A]	L _{WA out} [dB (A)]	T _{a max} [°C]
1	400	50	735	17770	0	503	0,85	70	60
2	400	50	735	15850	40	612	1,02	66	60
3	400	50	735	12730	80	735	1,18	65	60
4	400	50	735	10400	100	802	1,36	68	60
5	400	50	650	15700	0	348	0,68	67	60
6	400	50	650	14000	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

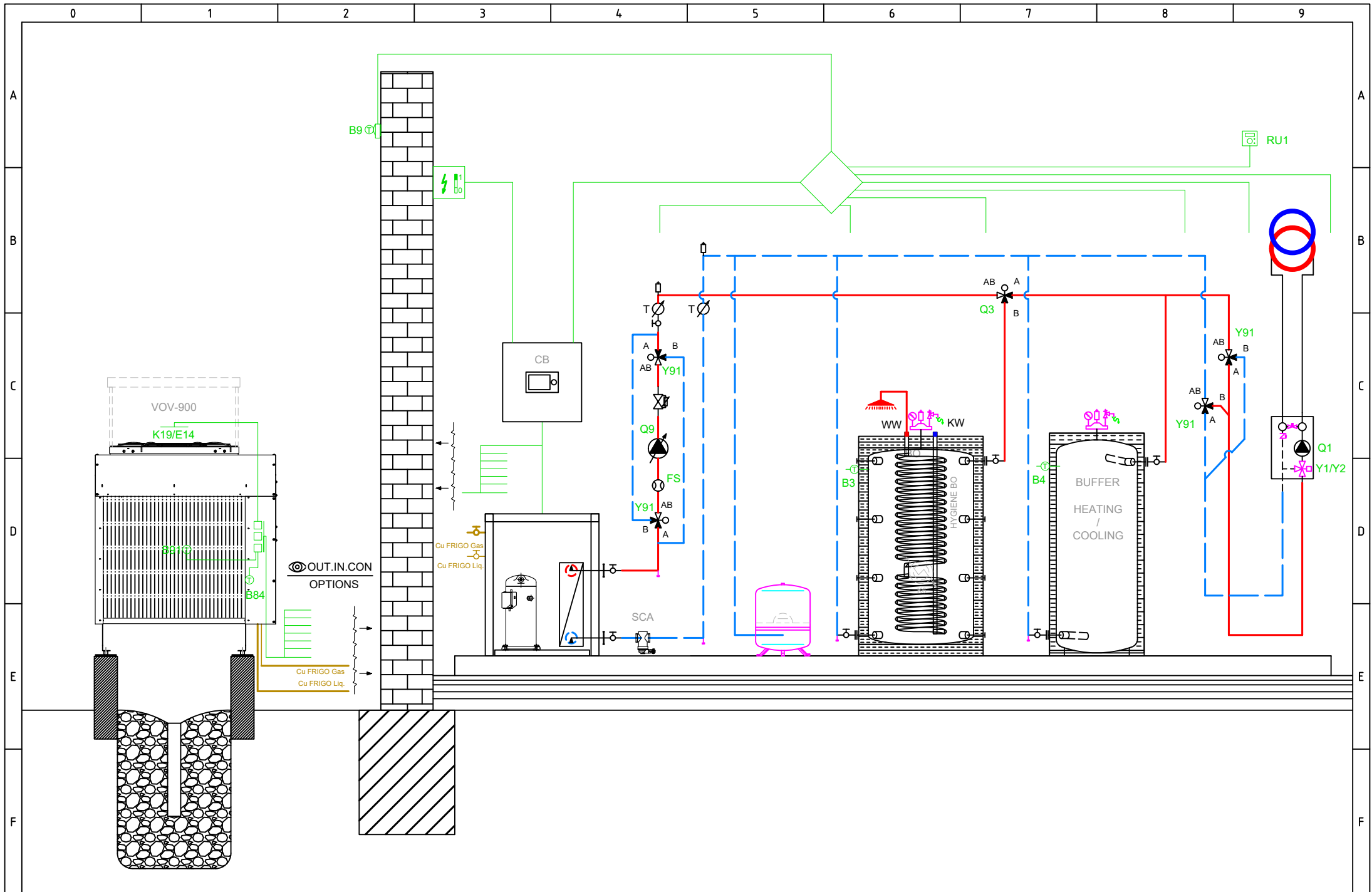




FACTORY SETTINGS



BASIC APPLICATION



OPTIONAL APPLICATION

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

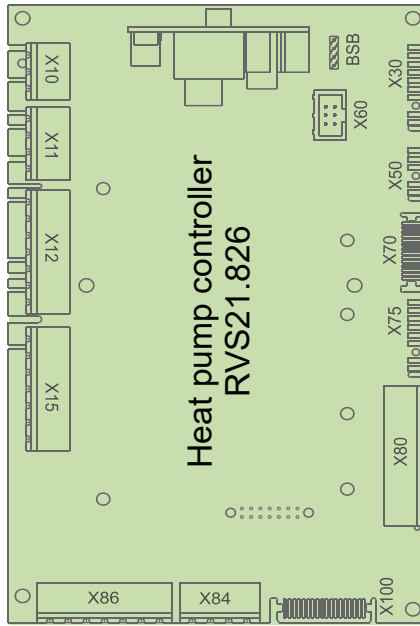
- L Phase 230V
- K1 Compressor stage 1 K1
- Y22 Process revers valve Y22

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

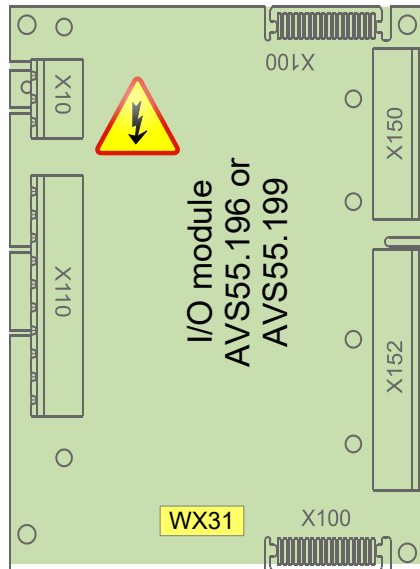
- B71 HP return sensor B71
- B9 Outside sensor B9

Main power supply 230V / 50 Hz
Ground
Neutral conductor

K10 Alarm output K10

V81 EEV evaporator V81

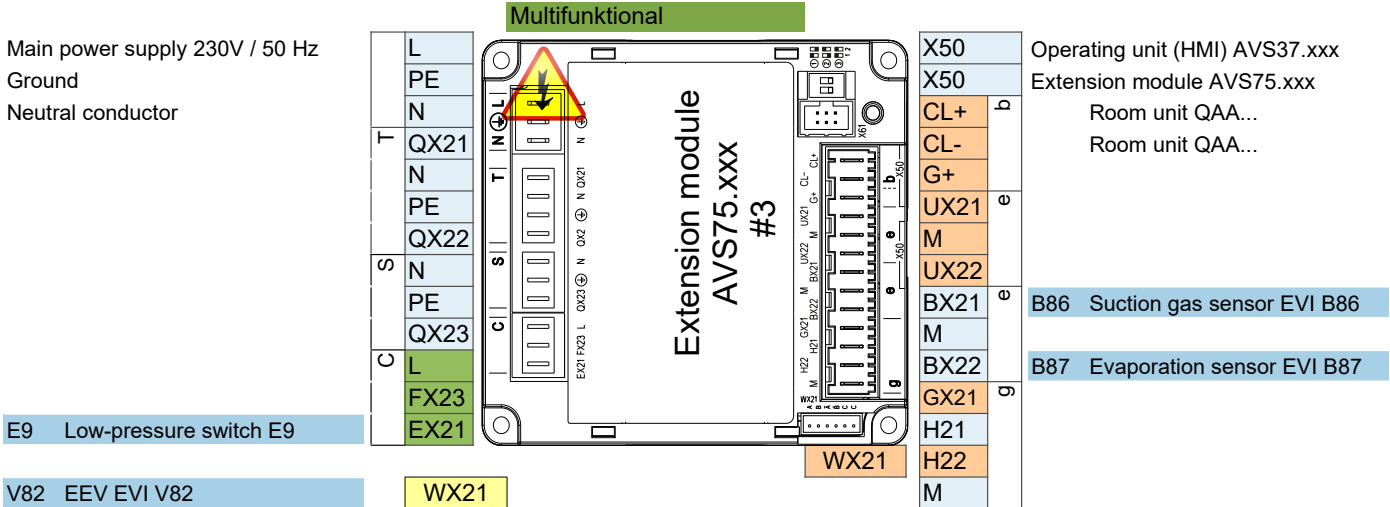
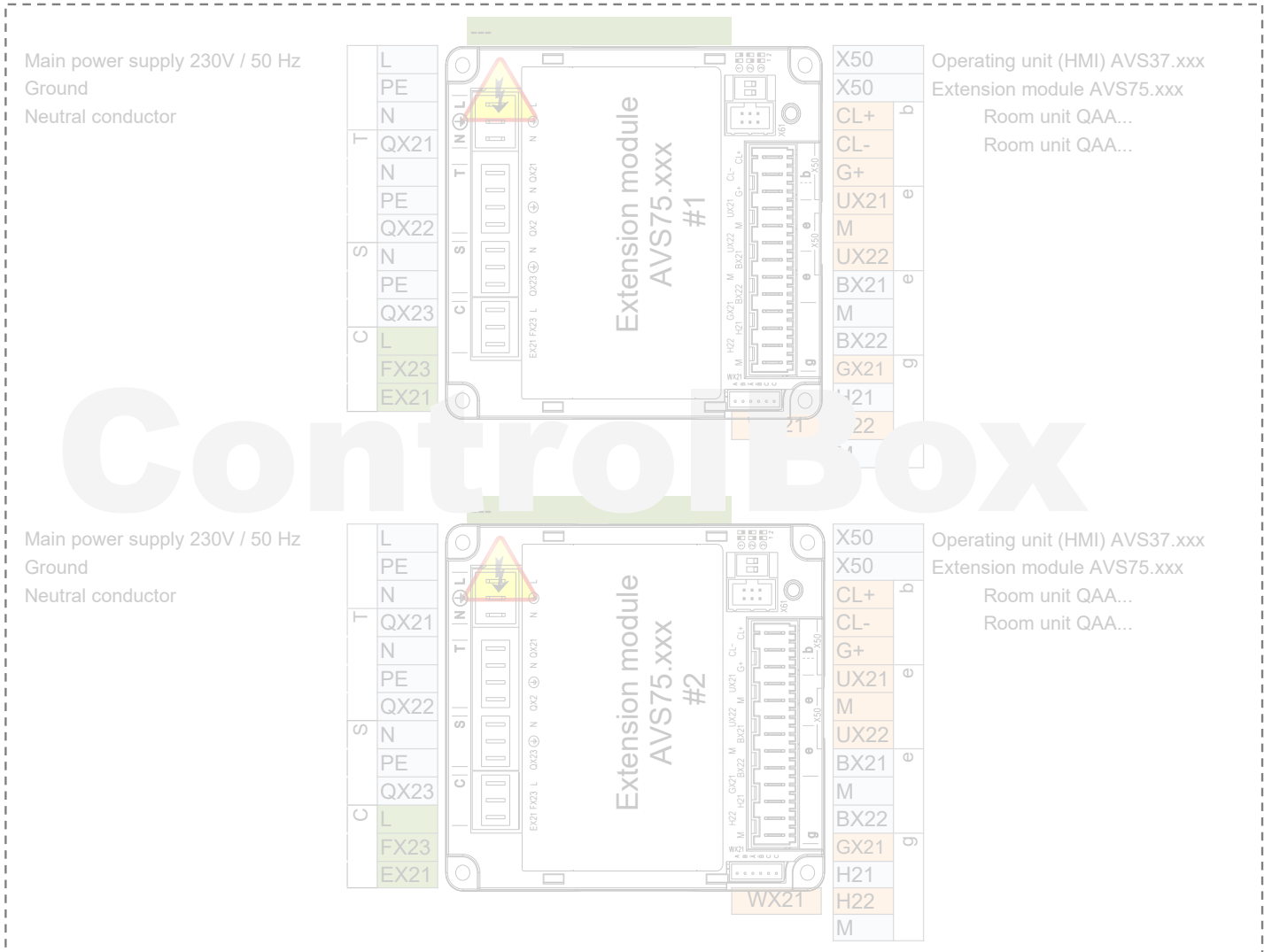
X10	1	L
X10	1	PE
X10	1	N
X110	1	QX31
X110	1	QX32
X110	1	N
X110	1	QX33
X110	1	N
X110	1	ZX34
X110	1	N
X115	1	QX35
X115	1	QX35i
X115	1	N

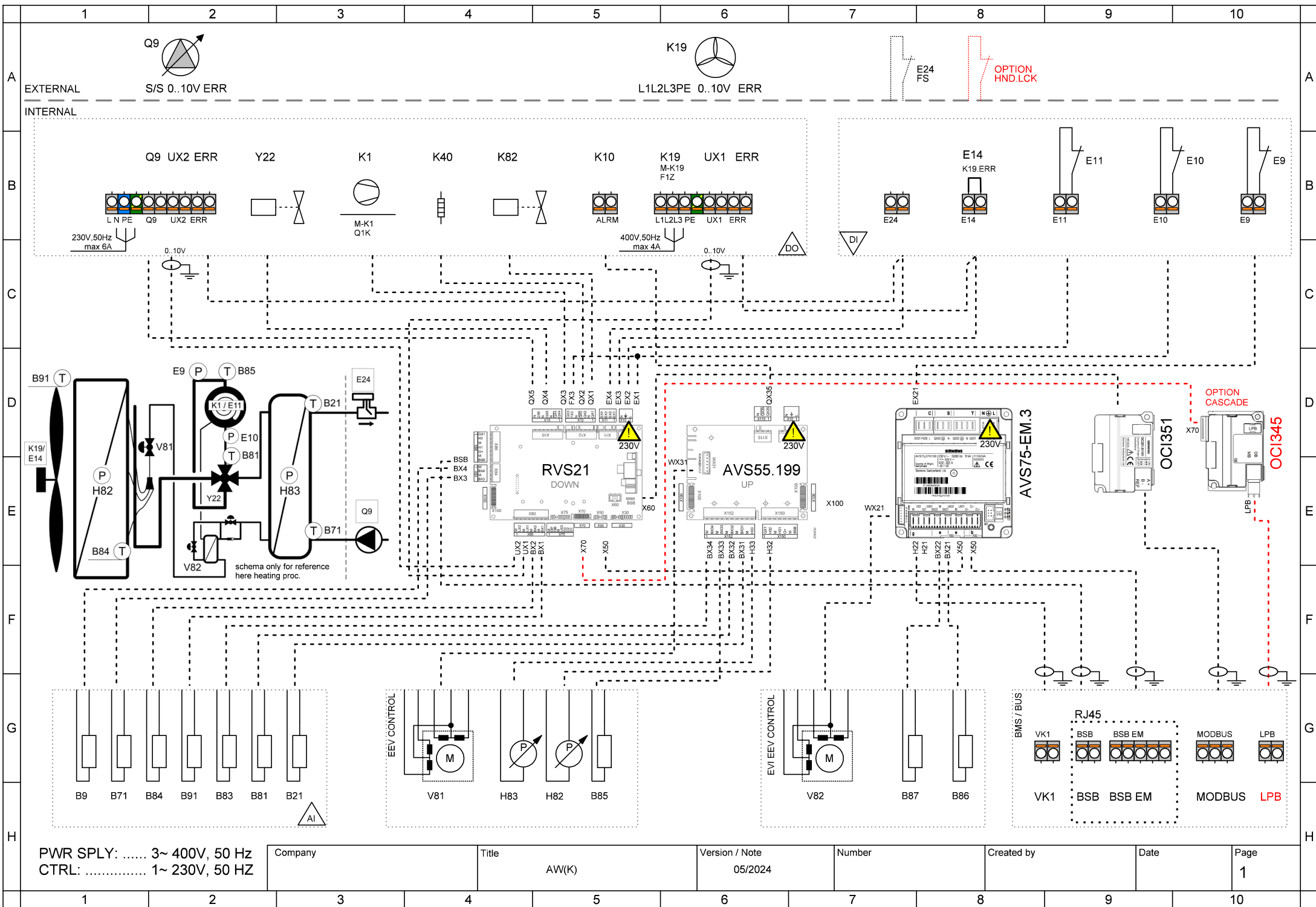


BSB
M
G+
H31
H32
GX1
H33
M
BX31
M
BX32
M
BX33
M
BX34
M

- 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





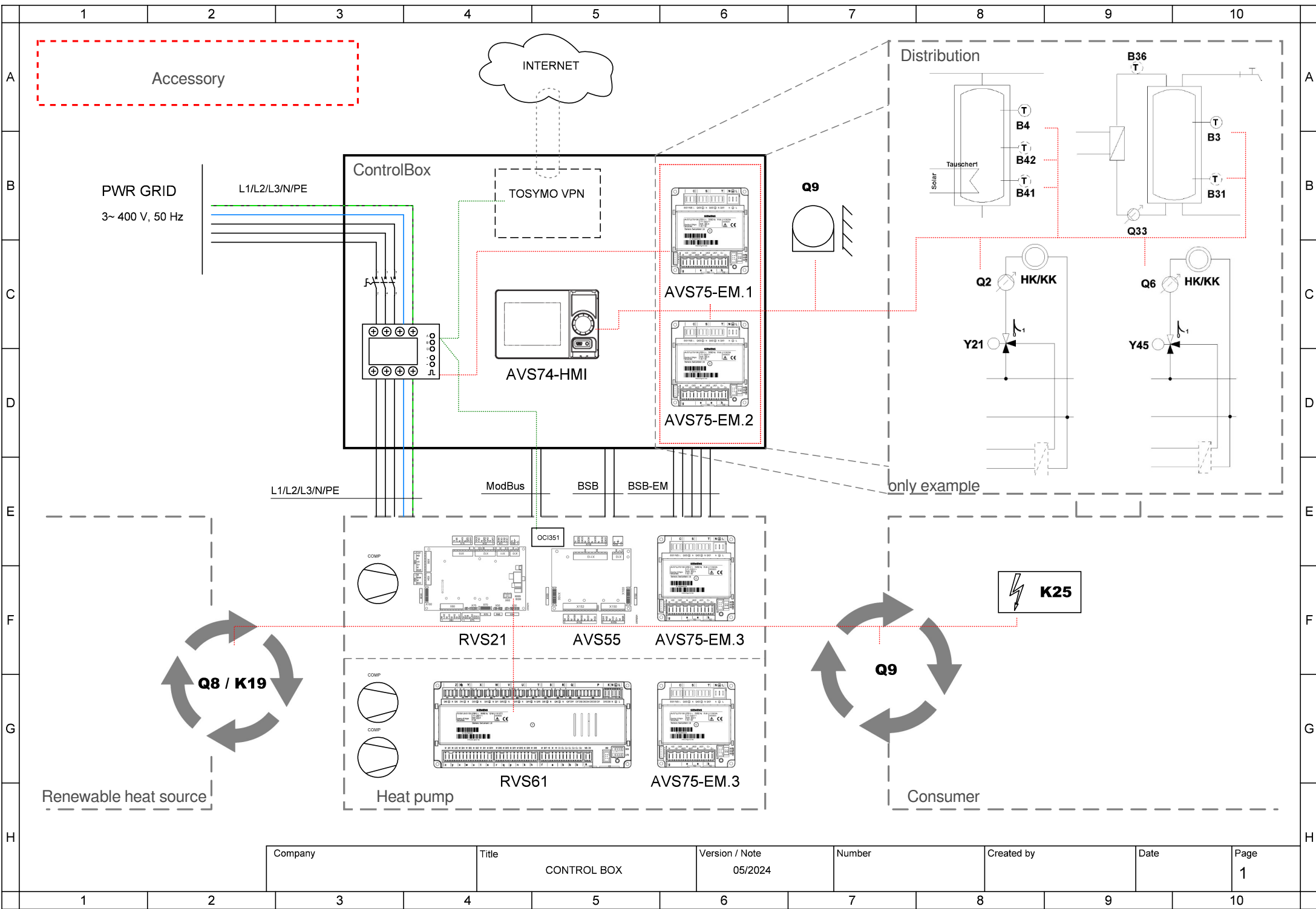
PWR SPLY: 3~ 400V, 50 Hz
CTRL: 1~ 230V, 50 HZ

Company _____ Title _____
Version / Note _____ Number _____
Created by _____ Date _____ Page _____

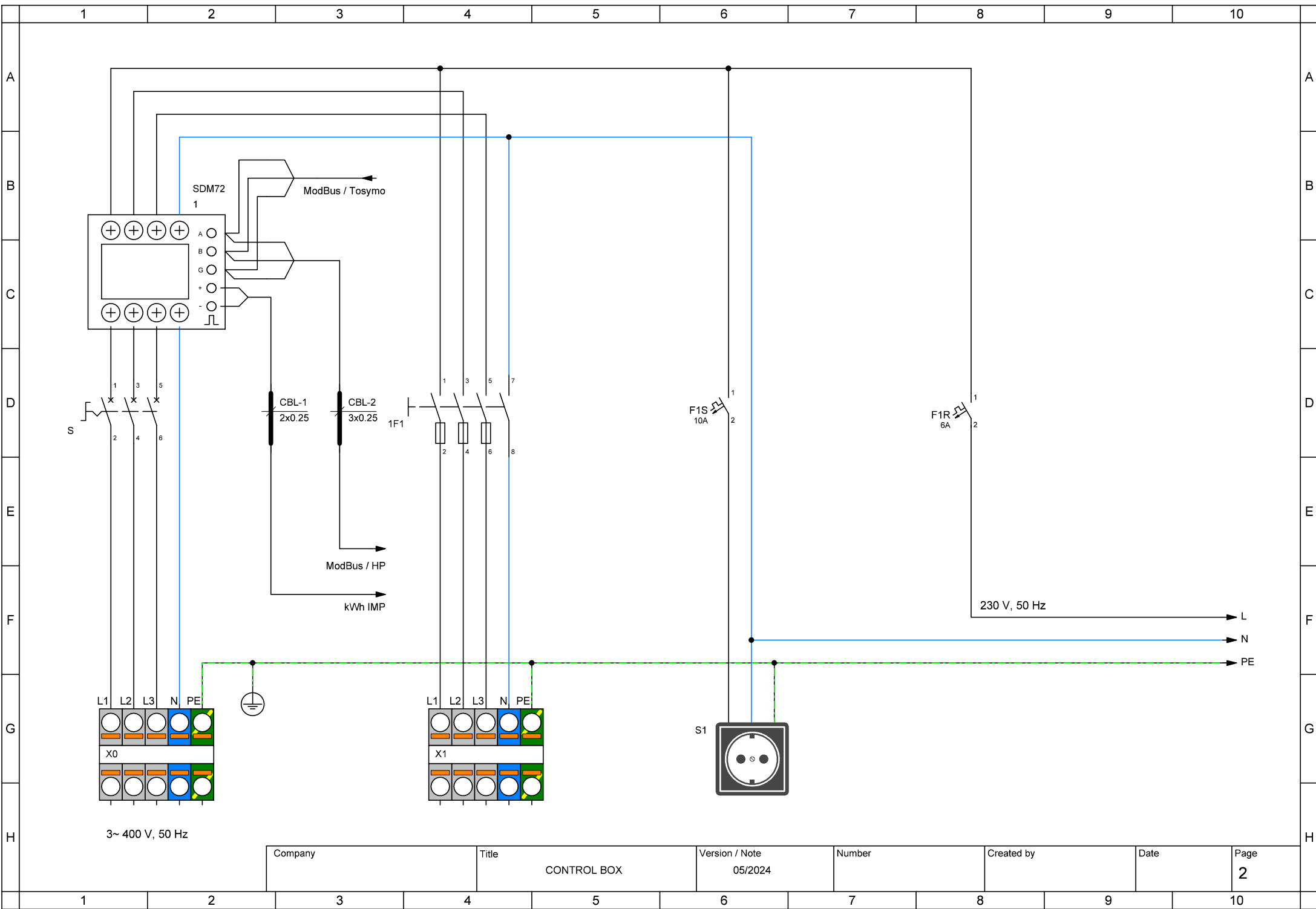
AW(K)

05/2024

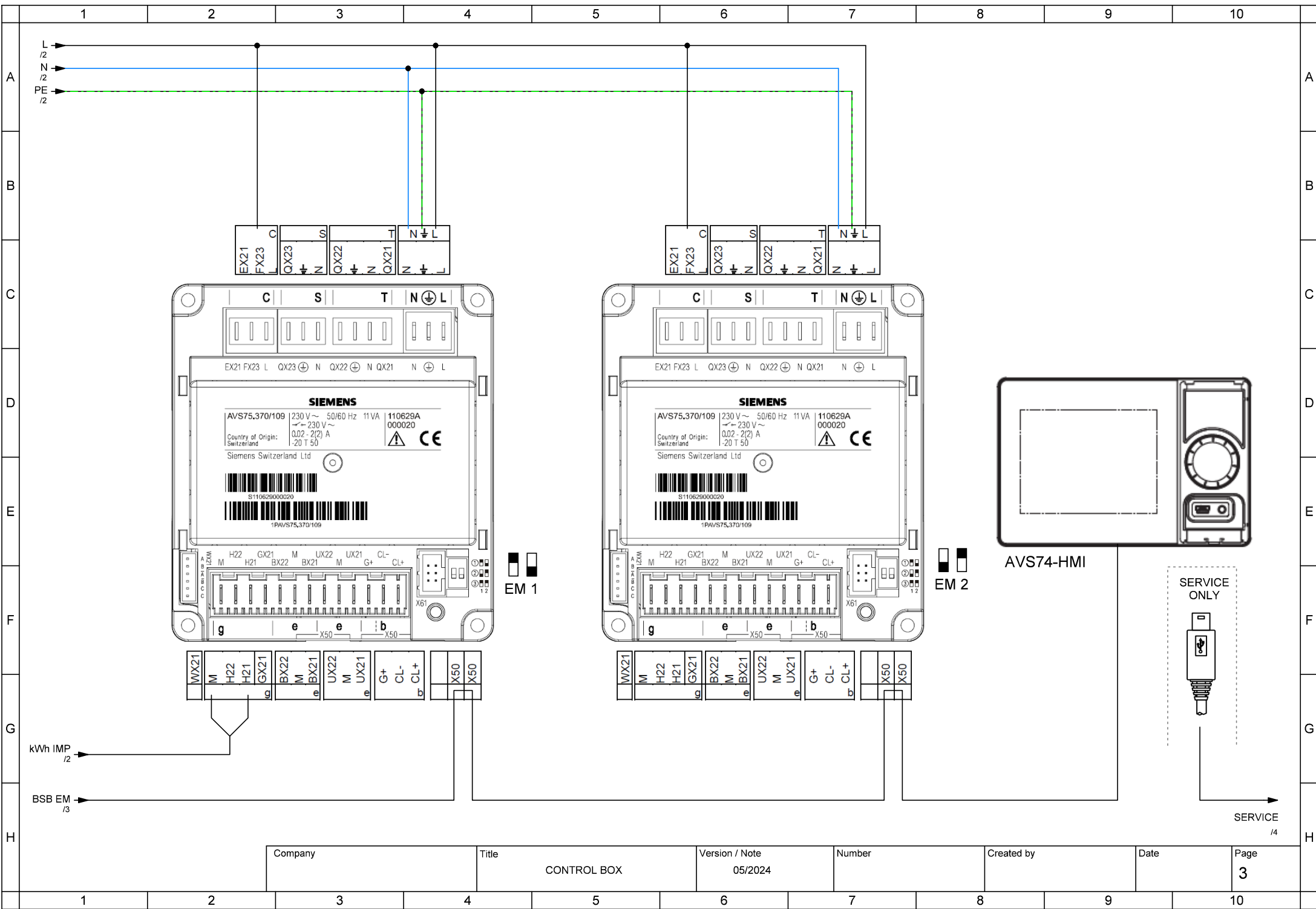
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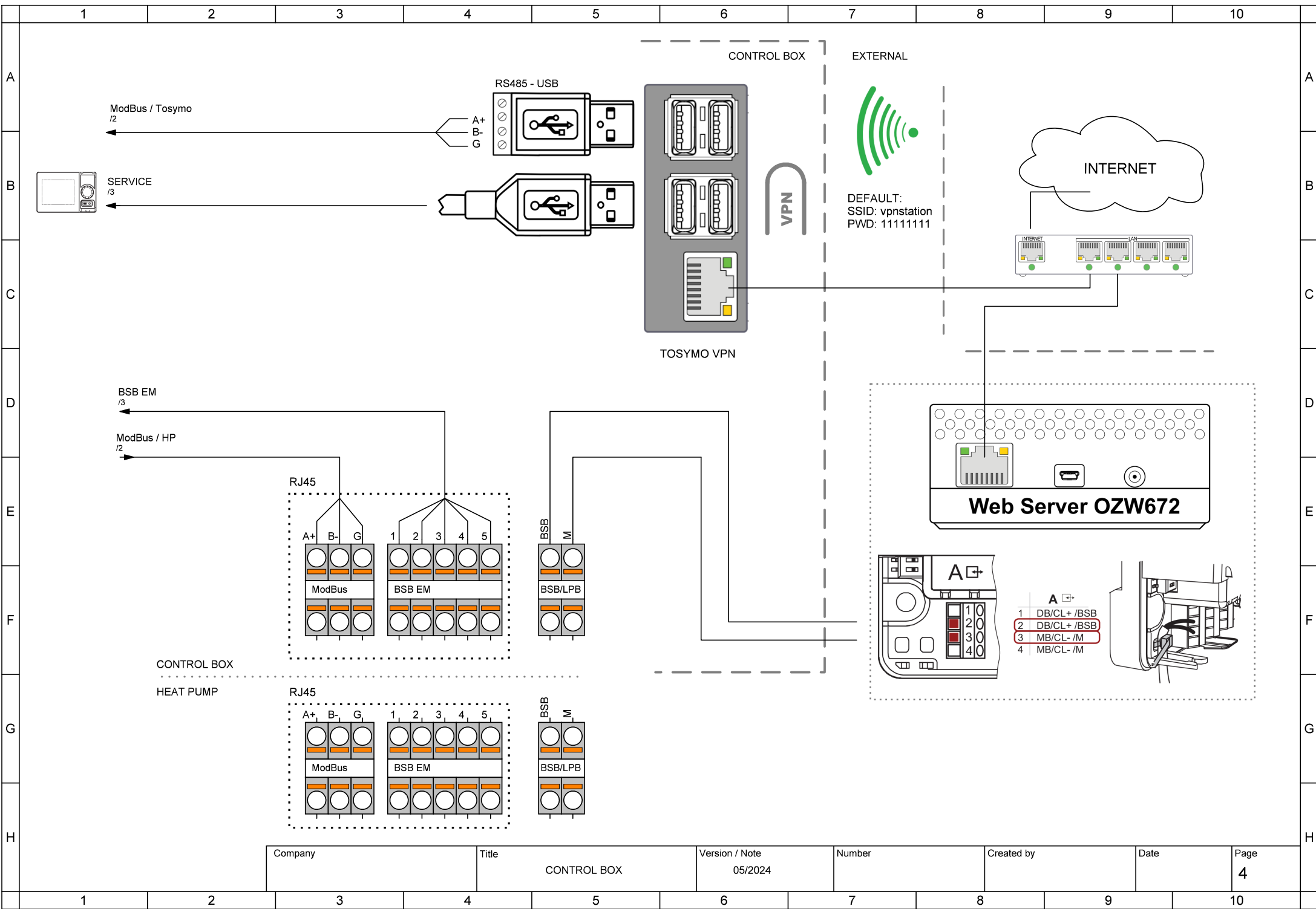
Company	Title	Version / Note	Number	Created by	Date	Page
	CONTROL BOX	05/2024				1



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



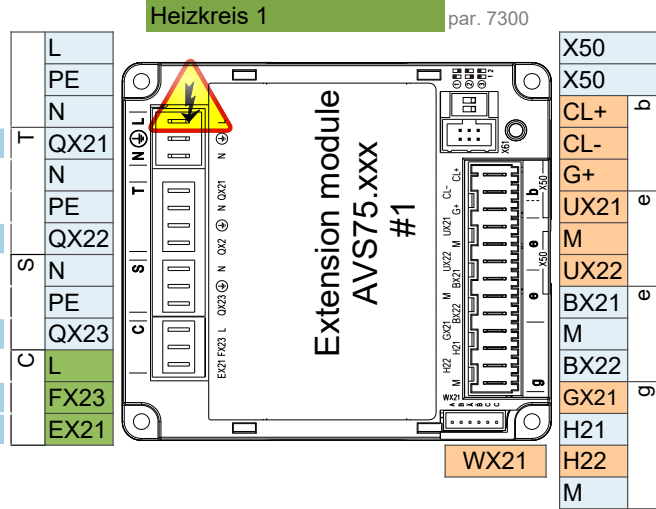
- AVS75.390
- AVS75.391
- AVS75.370

- 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

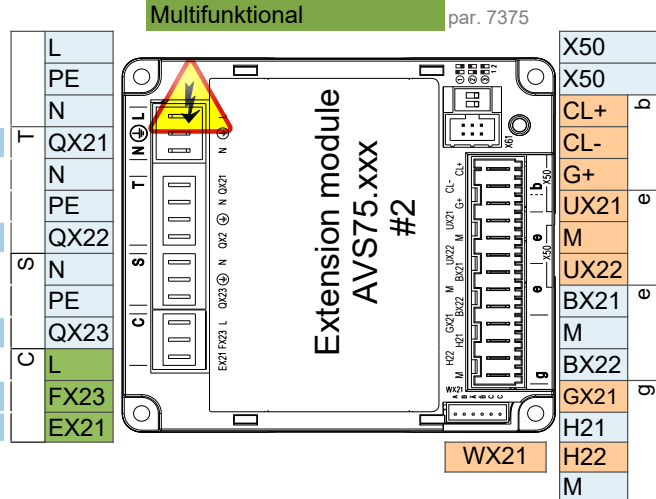
 Pulse count

- 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

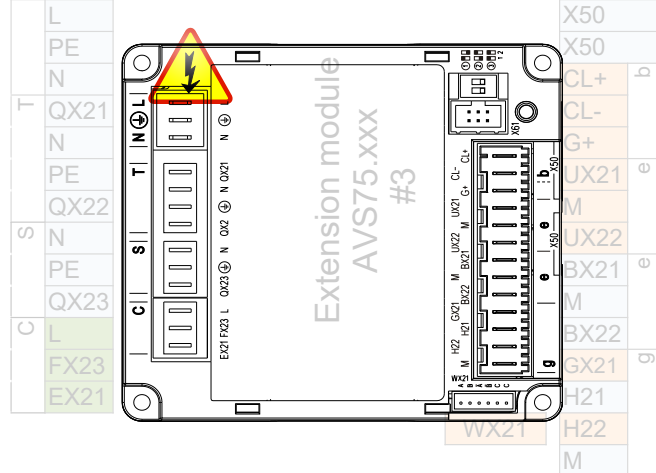


- Operating unit (HMI) AVS37.xxx
 Extension module AVS75.xxx
 Room unit QAA...
 Room unit QAA...

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