

## Basic performance data - WAMAK AW 300 EVI HeavyDuty 2L3

Heating - EN 14511		
Heating capacity [kW]	A7 / W35	294.5 ( 49.1 / 294.5 )
	A2 / W35	250.2 ( 41.7 / 250.2 )
	A-7 / W34	209.9 ( 35.0 / 209.9 )
Electrical power input [kW]	A7 / W35	68.3 ( 10.7 / 68.3 )
	A2 / W35	68.2 ( 10.7 / 68.2 )
	A-7 / W34	66.3 ( 10.4 / 66.3 )
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	4.23
	$\eta$ [ % ]	169.4
	Label	A+++
	Qhe [ kWh ]	115769.8
	Pdesignh [ kW ]	238.0
	Tbivalent [ °C ]	-7
Cooling		
Cooling capacity - [kW]	A35 / W23-18	290.6
	A25 / W23-18	305.4
	A35 / W12-7	218.3
	A25 / W12-7	218.3
Seasonal space cooling energy efficiency - SEER EN 14825		
[ W 23 / 18 °C ]	SEER	4.55
	Qce [ kWh ]	130980.0
	$\eta_c$ [ % ]	181.9
Sound EN 12102		
Acoustic power - Lw	dB(A)	72.5
Acoustic pressure - Lp	1 m dB(A)	64.5
	5 m dB(A)	50.5
	10 m dB(A)	44.5
Mechanical and operational information		
Compressor type (3~ 400/50)	SCROLL / 6 /	On/Off
Refrigerant	R410A (GWP - 2088)	6 x 9.6 kg
Operating limit temperatures heating - (min / max ) [ °C ]		25 / <b>65</b>
Operating limit temperatures source - (min / max ) [ °C ]		<b>-22</b> / 40
Weight		1495 kg

## Main technical data - WAMAK AW 300 EVI HeavyDuty 2L3

Enclosure type		HD2L3		Heat energy rejection side data			
Basic dimensions	Height [mm]	2000		Operating limit temperatures heating	MAX [°C]	65	
	Width [mm]	2150			MIN [°C]	25	
	Length [mm]	1200		for more see operating limits diagram			
Weight [kg]	1495		Condenser	Port size	6 x 2 "		
Colour	Gray			Type	BPHE		
Enclosure IP Class	IP20			Count	6		
				Material	AISI 316		
Refrigeration cycle			Maximal operating pressure - refrigerant [bar]			50	
Compressor	Type	Scroll		Maximal operating pressure - Water [bar]			6
	Number of stages	6		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 ~ 50.86
	Winding resistance	0.76 Ohm		Internal pressure drop - Water [kPa]			6 x 20
Refrigerant		R410A		Temperature difference @ 35°C (nom)			5 K
	Volme	6 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	6 x 3.38 L		Operating limit temperatures source	MIN [°C]	-22	
Maximal pressure - refrigerant [bar]	50		for more see operating limits diagram				
	PED class	2		Evaporator	MAX [°C]	40	
EVI - vapour injection with economizer			Port size		6 x (7/8" - 1.3/8") "		
APS System of liquid subcooling			Type		Cu-coil /Al-fin		
Reversible operation (cooling)			Count	6			
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]			15073 ~ 90440	
Current	nominal [A]	141.18		Internal pressure drop - Air [kPa]			6 x 0.061
	maximal [A]	224.40		Temperature difference - Air			7 K
	starting [A]	57.2		Possible outdoor units			3 x VOV900X2-FRAME
Softstart	-		6 x VOII-1200-2LOW				
Main safety	C240		6 x VOII-1200-2HIGH				
Control System			6 x VOII-1200-2LOW-DUCT				
Main controller	SIEMENS	RVS 21 AVS 55.199		6 x VOII-1200-2HIGH-DUCT			
Extension module	AVS75.3xx	AVS75.3xx	AVS75.372	Split System (compressor indoors)			
	Bus Clip-In	LPB OCI346	Modbus OCI352	Liquid line dimension (up to 8 meters IU/OU)			6 x 7/8"
Online connection	Web server OZW672	ToSyMo		Suction line dimension (up to 8 meters IU/OU)			6 x 1.3/8"
Superheat controller	SEC61			Surcharge of refrigerant over 8 meter distance IU/OU			6 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 300 EVI HeavyDuty 2L3

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

Model	AW 300 EVI HeavyDuty 2L3
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	238.0	kW	Seasonal space heating energy efficiency	$\eta_s$	169.4	%
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	209.9	kW	Tj = -7 °C	COPd	3.17	-
Tj = +2 °C	Pdh	247.5	kW	Tj = +2 °C	COPd	4.1	-
Tj = +7 °C	Pdh	291.6	kW	Tj = +7 °C	COPd	5.1	-
Tj = +12 °C	Pdh	344.7	kW	Tj = +12 °C	COPd	6.4	-
Tj = bivalent temperature	Pdh	206.4	kW	Tj = bivalent temperature	COPd	3.1	-
Tj = operation limit temperature	Pdh	150.5	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	105.5	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	-	15073 ~ 90440	m <sup>3</sup> /h
Sound power level				For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	---	m <sup>3</sup> /h
indoors	Lwa	73	dB				
outdoors	Lwa	78	dB				
Annual energy consumption	Q <sub>HE</sub>	115769.8	kWh				

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

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Model	AW 300 EVI HeavyDuty 2L3
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	249.7	kW	Seasonal space heating energy efficiency	$\eta_s$	132.5	%
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	219.4	kW	Tj = -7 °C	COPd	2.24	-
Tj = +2 °C	Pdh	253.5	kW	Tj = +2 °C	COPd	3.2	-
Tj = +7 °C	Pdh	294.8	kW	Tj = +7 °C	COPd	4.2	-
Tj = +12 °C	Pdh	345.4	kW	Tj = +12 °C	COPd	5.6	-
Tj = bivalent temperature	Pdh	216.8	kW	Tj = bivalent temperature	COPd	2.1	-
Tj = operation limit temperature	Pdh	158.7	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	105.5	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:			
Other items				Rated air flow rate, outdoors	-	15073 ~ 90440	m <sup>3</sup> /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	73	dB				
outdoors	Lwa	78	dB				
Annual energy consumption	Q <sub>HE</sub>	155370.5	kWh				

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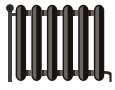


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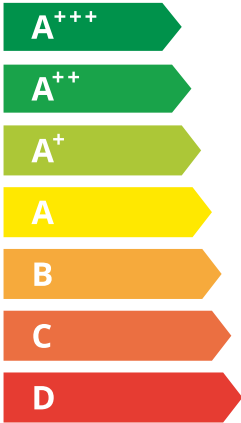
AW 300 EVI

HeavyDuty 2L3



55 °C

35 °C



73 dB

78 dB

■ 263	■ 243
■ 250	■ 238
■ 245	■ 227
kW	kW

2019

811/2013

AW 300 EVI HeavyDuty  
 2L3

**ErP Data**

	55 °C	35 °C
Energy class	<b>A++</b>	<b>A+++</b>
$\eta$ [%]	132.5	169.4
$P_{rated}$ [kW]	250	238
$Q_{HE}$ [kWh/y]	155371	115770
SCOP [-]	3.31	4.23
$T_{bivalent}$ [°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\_6\_AW

Operating conditions		Qh	P	COP
1	A7 / W30-35	294.5	68.3	4.31
2	A2 / W35	250.2	68.2	3.67
3	A-22 / W35	150.5	65.0	2.31
A	A-7 / W34	209.9	66.3	3.17
B	A2 / W30	247.5	61.0	4.06
C	A7 / W27	291.6	57.1	5.11
D	A12 / W24	344.7	53.7	6.41
E	A-10 / W35	206.4	67.7	3.05
F	A-7 / W34	209.9	66.3	3.17

SCOP DATA EN 14825:2018	
<b>Average Climate / Low Temperature [35°C]</b>	
SCOPon	4.25
SCOPnet	4.28
SCOP	4.23
η [%]	169.36
Label	A+++
Qh [ kWh ]	115769.78
Pdesignh [ kW ]	238.0
Tbivalent [ °C ]	-7.00

Average Climate / Medium Temperature [55°C]

Operating conditions		Qh	P	COP
1	A7 / W47-55	300.5	107.1	2.81
2	A2 / W55	259.3	106.3	2.44
3	A-22 / W55	158.7	91.0	1.62
A	A-7 / W52	219.4	97.9	2.24
B	A2 / W42	253.5	79.6	3.18
C	A7 / W36	294.8	69.8	4.22
D	A12 / W30	345.4	61.3	5.64
E	A-10 / W55	216.8	104.4	2.08
F	A-7 / W55	220.9	104.6	2.11

SCOP DATA EN 14825:2018	
<b>Average Climate / Medium Temperature [55°C]</b>	
SCOPon	3.32
SCOPnet	3.34
SCOP	3.31
η [%]	132.50
Label	A++
Qh [ kWh ]	155370.52
Pdesignh [ kW ]	249.7
Tbivalent [ °C ]	-7.00

Cooling performance data

Low temperature cooling W 12 / 7°C

Operating conditions		Qc	P	EER
A	A35 / W12-7	218.3	81.6	2.68
B	A30 / W12-7	224.3	73.0	3.07
C	A25 / W12-7	229.4	65.3	3.51
D	A20 / W12-7	233.6	58.4	4.00

SEER DATA EN 14825:2018 [ W 12 / 7°C ]	
SEERon	3.43
SEER	3.42
Qc [ kWh ]	48080.85
η [%]	136.76

Radiant cooling W 23 / 18°C

Operating conditions		Qc	P	EER
A	A35 / W23-18	290.6	81.6	3.56
B	A30 / W23-18	298.5	67.6	4.09
C	A25 / W23-18	305.4	60.7	4.67
D	A20 / W23-18	311.5	54.6	5.34

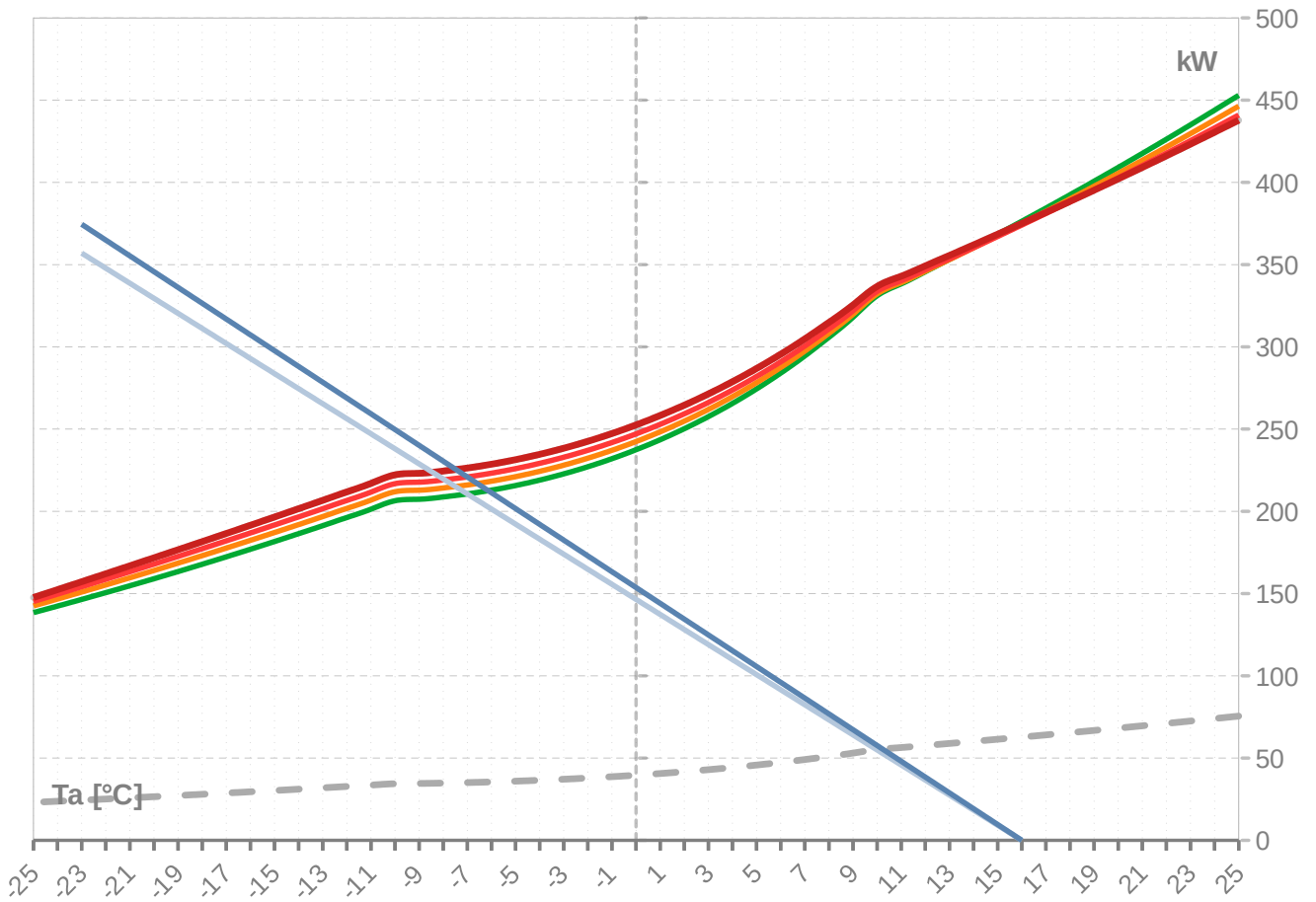
SEER DATA EN 14825:2018 [ W 23 / 18°C ]	
SEERon	4.57
SEER	4.55
Qc [ kWh ]	36110.25
η [%]	181.92

# WAMAK AW 300 EVI HeavyDuty 2L3

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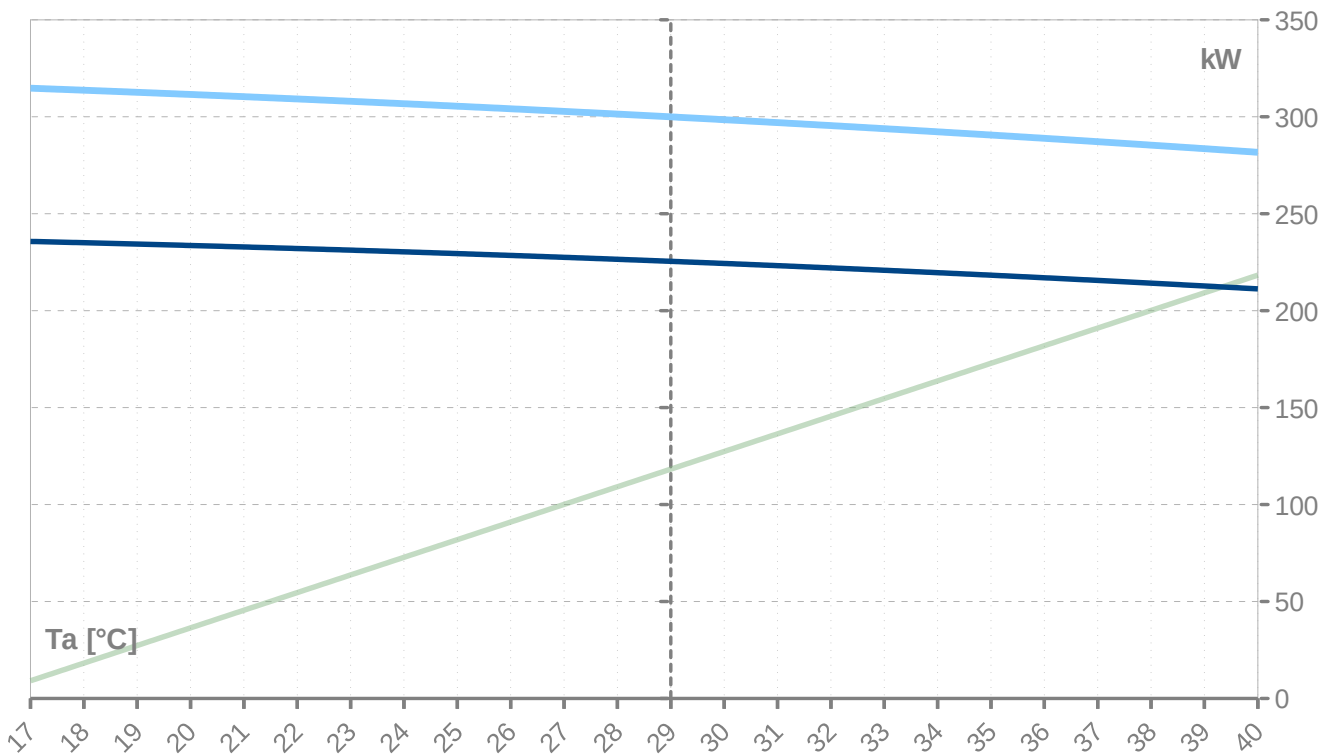
## Performance lines - heating

- 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 300 EVI HeavyDuty 2L3

Th [°C]		35 °C								
Ta [°C]	Qh nom [kW]	Qh min [kW]	Qh max [kW]	Pin nom [kW]	Pin-min [kW]	Pin-max [kW]	COP kW / kW	I nom [A]	I min [A]	I max [A]
25	<b>384.4</b>	64.1		<b>68.3</b>	10.7		<b>5.62</b>	139.6	23.3	
24	<b>384.4</b>	64.1		<b>68.3</b>	10.7		<b>5.62</b>	139.6	23.3	
23	<b>384.4</b>	64.1		<b>68.3</b>	10.7		<b>5.62</b>	139.6	23.3	
22	<b>384.4</b>	64.1		<b>68.3</b>	10.7		<b>5.62</b>	139.6	23.3	
21	<b>384.4</b>	64.1		<b>68.3</b>	10.7		<b>5.62</b>	139.6	23.3	
20	<b>384.4</b>	64.1		<b>68.3</b>	10.7		<b>5.62</b>	139.6	23.3	
19	<b>384.4</b>	64.1		<b>68.3</b>	10.7		<b>5.62</b>	139.6	23.3	
18	<b>384.4</b>	64.1		<b>68.3</b>	10.7		<b>5.62</b>	139.6	23.3	
17	<b>384.4</b>	64.1		<b>68.3</b>	10.7		<b>5.62</b>	139.6	23.3	
16	<b>376.4</b>	62.7	376.4	<b>68.3</b>	10.7	68.3	<b>5.51</b>	139.7	23.3	139.7
15	<b>368.5</b>	61.4	368.5	<b>68.3</b>	10.7	68.3	<b>5.40</b>	139.9	23.3	139.9
14	<b>360.8</b>	60.1	360.8	<b>68.3</b>	10.7	68.3	<b>5.28</b>	140.0	23.3	140.0
13	<b>353.2</b>	58.9	353.2	<b>68.3</b>	10.7	68.3	<b>5.17</b>	140.1	23.4	140.1
12	<b>345.7</b>	57.6	345.7	<b>68.3</b>	10.7	68.3	<b>5.06</b>	140.3	23.4	140.3
11	<b>338.3</b>	56.4	338.3	<b>68.3</b>	10.7	68.3	<b>4.96</b>	140.4	23.4	140.4
10	<b>331.1</b>	55.2	331.1	<b>68.3</b>	10.7	68.3	<b>4.85</b>	140.6	23.4	140.6
9	<b>318.0</b>	53.0	318.0	<b>68.3</b>	10.7	68.3	<b>4.66</b>	140.9	23.5	140.9
8	<b>305.9</b>	51.0	305.9	<b>68.3</b>	10.7	68.3	<b>4.48</b>	141.2	23.5	141.2
7	<b>294.5</b>	49.1	294.5	<b>68.3</b>	10.7	68.3	<b>4.31</b>	141.4	23.6	141.4
6	<b>284.1</b>	47.3	284.1	<b>68.3</b>	10.7	68.3	<b>4.16</b>	141.7	23.6	141.7
5	<b>274.5</b>	45.7	274.5	<b>68.3</b>	10.7	68.3	<b>4.02</b>	141.9	23.7	141.9
4	<b>265.6</b>	44.3	265.6	<b>68.3</b>	10.7	68.3	<b>3.89</b>	142.1	23.7	142.1
3	<b>257.6</b>	42.9	257.6	<b>68.3</b>	10.7	68.3	<b>3.77</b>	142.2	23.7	142.2
2	<b>250.2</b>	41.7	250.2	<b>68.2</b>	10.7	68.2	<b>3.67</b>	142.3	23.7	142.3
1	<b>243.5</b>	40.6	243.5	<b>68.2</b>	10.7	68.2	<b>3.57</b>	142.4	23.7	142.4
0	<b>237.4</b>	39.6	237.4	<b>68.1</b>	10.7	68.1	<b>3.49</b>	142.5	23.7	142.5
-1	<b>232.0</b>	38.7	232.0	<b>68.1</b>	10.7	68.1	<b>3.41</b>	142.5	23.7	142.5
-2	<b>227.1</b>	37.9	227.1	<b>68.0</b>	10.7	68.0	<b>3.34</b>	142.5	23.7	142.5
-3	<b>222.8</b>	37.1	222.8	<b>68.0</b>	10.6	68.0	<b>3.28</b>	142.5	23.7	142.5
-4	<b>219.0</b>	36.5	219.0	<b>67.9</b>	10.6	67.9	<b>3.22</b>	142.4	23.7	142.4
-5	<b>215.7</b>	35.9	215.7	<b>67.9</b>	10.6	67.9	<b>3.18</b>	142.4	23.7	142.4
-6	<b>212.9</b>	35.5	212.9	<b>67.8</b>	10.6	67.8	<b>3.14</b>	142.4	23.7	142.4
-7	<b>210.6</b>	35.1	210.6	<b>67.8</b>	10.6	67.8	<b>3.11</b>	142.3	23.7	142.3
-8	<b>208.7</b>	34.8	208.7	<b>67.7</b>	10.6	67.7	<b>3.08</b>	142.3	23.7	142.3
-9	<b>207.3</b>	34.6	207.3	<b>67.7</b>	10.6	67.7	<b>3.06</b>	142.3	23.7	142.3
-10	<b>206.4</b>	34.4	206.4	<b>67.7</b>	10.6	67.7	<b>3.05</b>	142.2	23.7	142.2
-11	<b>201.3</b>	33.5	201.3	<b>67.5</b>	10.6	67.5	<b>2.98</b>	142.1	23.7	142.1
-12	<b>196.2</b>	32.7	196.2	<b>67.4</b>	10.6	67.4	<b>2.91</b>	141.9	23.7	141.9
-13	<b>191.3</b>	31.9	191.3	<b>67.2</b>	10.5	67.2	<b>2.84</b>	141.7	23.6	141.7
-14	<b>186.4</b>	31.1	186.4	<b>67.1</b>	10.5	67.1	<b>2.78</b>	141.5	23.6	141.5
-15	<b>181.6</b>	30.3	181.6	<b>66.9</b>	10.5	66.9	<b>2.72</b>	141.2	23.5	141.2
-16	<b>176.9</b>	29.5	176.9	<b>66.7</b>	10.4	66.7	<b>2.65</b>	140.9	23.5	140.9
-17	<b>172.3</b>	28.7	172.3	<b>66.5</b>	10.4	66.5	<b>2.59</b>	140.5	23.4	140.5
-18	<b>167.8</b>	28.0	167.8	<b>66.2</b>	10.4	66.2	<b>2.53</b>	140.1	23.3	140.1
-19	<b>163.4</b>	27.2	163.4	<b>66.0</b>	10.3	66.0	<b>2.48</b>	139.6	23.3	139.6
-20	<b>159.0</b>	26.5	159.0	<b>65.7</b>	10.3	65.7	<b>2.42</b>	139.1	23.2	139.1
-21	<b>154.7</b>	25.8	154.7	<b>65.4</b>	10.2	65.4	<b>2.37</b>	138.5	23.1	138.5
-22	<b>150.5</b>	25.1	150.5	<b>65.0</b>	10.2	65.0	<b>2.31</b>	137.9	23.0	137.9
-23	<b>146.4</b>	24.4	146.4	<b>64.7</b>	10.1	64.7	<b>2.26</b>	137.2	22.9	137.2
-24	<b>142.4</b>	23.7	142.4	<b>64.3</b>	10.1	64.3	<b>2.21</b>	136.5	22.8	136.5
-25	<b>138.4</b>	23.1	138.4	<b>63.9</b>	10.0	63.9	<b>2.17</b>	135.7	22.6	135.7

\* attention: operating limits not reflected in performance table

ZHI46K1P-TWD\_R410A\_6\_AW



Th [°C]		45 °C								
Ta [°C]	Qh nom [kW]	Qh min [kW]	Qh max [kW]	Pin nom [kW]	Pin-min [kW]	Pin-max [kW]	COP kW / kW	I nom [A]	I min [A]	I max [A]
25	<b>446.4</b>	74.4	446.4	<b>84.7</b>	13.3	84.7	<b>5.27</b>	159.2	26.5	159.2
24	<b>438.0</b>	73.0	438.0	<b>84.7</b>	13.3	84.7	<b>5.17</b>	159.1	26.5	159.1
23	<b>429.7</b>	71.6	429.7	<b>84.7</b>	13.3	84.7	<b>5.07</b>	159.1	26.5	159.1
22	<b>421.5</b>	70.2	421.5	<b>84.7</b>	13.3	84.7	<b>4.98</b>	159.1	26.5	159.1
21	<b>413.4</b>	68.9	413.4	<b>84.7</b>	13.3	84.7	<b>4.88</b>	159.1	26.5	159.1
20	<b>405.5</b>	67.6	405.5	<b>84.8</b>	13.3	84.8	<b>4.78</b>	159.2	26.5	159.2
19	<b>397.7</b>	66.3	397.7	<b>84.8</b>	13.3	84.8	<b>4.69</b>	159.2	26.5	159.2
18	<b>389.9</b>	65.0	389.9	<b>84.9</b>	13.3	84.9	<b>4.60</b>	159.3	26.5	159.3
17	<b>382.3</b>	63.7	382.3	<b>84.9</b>	13.3	84.9	<b>4.50</b>	159.3	26.6	159.3
16	<b>374.9</b>	62.5	374.9	<b>84.9</b>	13.3	84.9	<b>4.41</b>	159.4	26.6	159.4
15	<b>367.5</b>	61.2	367.5	<b>85.0</b>	13.3	85.0	<b>4.32</b>	159.4	26.6	159.4
14	<b>360.2</b>	60.0	360.2	<b>85.0</b>	13.3	85.0	<b>4.24</b>	159.5	26.6	159.5
13	<b>353.1</b>	58.8	353.1	<b>85.1</b>	13.3	85.1	<b>4.15</b>	159.6	26.6	159.6
12	<b>346.0</b>	57.7	346.0	<b>85.1</b>	13.3	85.1	<b>4.07</b>	159.6	26.6	159.6
11	<b>339.1</b>	56.5	339.1	<b>85.1</b>	13.3	85.1	<b>3.98</b>	159.7	26.6	159.7
10	<b>332.2</b>	55.4	332.2	<b>85.2</b>	13.3	85.2	<b>3.90</b>	159.8	26.6	159.8
9	<b>319.8</b>	53.3	319.8	<b>85.2</b>	13.3	85.2	<b>3.75</b>	159.9	26.6	159.9
8	<b>308.3</b>	51.4	308.3	<b>85.3</b>	13.4	85.3	<b>3.62</b>	159.9	26.7	159.9
7	<b>297.4</b>	49.6	297.4	<b>85.3</b>	13.4	85.3	<b>3.49</b>	159.9	26.7	159.9
6	<b>287.5</b>	47.9	287.5	<b>85.3</b>	13.4	85.3	<b>3.37</b>	159.9	26.7	159.9
5	<b>278.2</b>	46.4	278.2	<b>85.2</b>	13.4	85.2	<b>3.26</b>	159.8	26.6	159.8
4	<b>269.8</b>	45.0	269.8	<b>85.2</b>	13.3	85.2	<b>3.17</b>	159.7	26.6	159.7
3	<b>262.0</b>	43.7	262.0	<b>85.1</b>	13.3	85.1	<b>3.08</b>	159.6	26.6	159.6
2	<b>254.8</b>	42.5	254.8	<b>85.0</b>	13.3	85.0	<b>3.00</b>	159.4	26.6	159.4
1	<b>248.3</b>	41.4	248.3	<b>85.0</b>	13.3	85.0	<b>2.92</b>	159.2	26.5	159.2
0	<b>242.4</b>	40.4	242.4	<b>84.8</b>	13.3	84.8	<b>2.86</b>	159.0	26.5	159.0
-1	<b>237.1</b>	39.5	237.1	<b>84.7</b>	13.3	84.7	<b>2.80</b>	158.8	26.5	158.8
-2	<b>232.3</b>	38.7	232.3	<b>84.6</b>	13.3	84.6	<b>2.74</b>	158.6	26.4	158.6
-3	<b>228.0</b>	38.0	228.0	<b>84.5</b>	13.2	84.5	<b>2.70</b>	158.3	26.4	158.3
-4	<b>224.3</b>	37.4	224.3	<b>84.4</b>	13.2	84.4	<b>2.66</b>	158.1	26.4	158.1
-5	<b>221.1</b>	36.8	221.1	<b>84.3</b>	13.2	84.3	<b>2.62</b>	157.9	26.3	157.9
-6	<b>218.3</b>	36.4	218.3	<b>84.2</b>	13.2	84.2	<b>2.59</b>	157.7	26.3	157.7
-7	<b>216.0</b>	36.0	216.0	<b>84.1</b>	13.2	84.1	<b>2.57</b>	157.5	26.3	157.5
-8	<b>214.2</b>	35.7	214.2	<b>84.1</b>	13.2	84.1	<b>2.55</b>	157.4	26.2	157.4
-9	<b>212.8</b>	35.5	212.8	<b>84.0</b>	13.2	84.0	<b>2.53</b>	157.3	26.2	157.3
-10	<b>211.9</b>	35.3	211.9	<b>84.0</b>	13.2	84.0	<b>2.52</b>	157.2	26.2	157.2
-11	<b>206.8</b>	34.5	206.8	<b>83.8</b>	13.1	83.8	<b>2.47</b>	156.7	26.1	156.7
-12	<b>201.8</b>	33.6	201.8	<b>83.5</b>	13.1	83.5	<b>2.42</b>	156.2	26.0	156.2
-13	<b>196.8</b>	32.8	196.8	<b>83.3</b>	13.0	83.3	<b>2.36</b>	155.7	25.9	155.7
-14	<b>191.9</b>	32.0	191.9	<b>83.0</b>	13.0	83.0	<b>2.31</b>	155.1	25.8	155.1
-15	<b>187.1</b>	31.2	187.1	<b>82.7</b>	12.9	82.7	<b>2.26</b>	154.4	25.7	154.4
-16	<b>182.3</b>	30.4	182.3	<b>82.3</b>	12.9	82.3	<b>2.21</b>	153.7	25.6	153.7
-17	<b>177.7</b>	29.6	177.7	<b>82.0</b>	12.8	82.0	<b>2.17</b>	153.0	25.5	153.0
-18	<b>173.0</b>	28.8	173.0	<b>81.6</b>	12.8	81.6	<b>2.12</b>	152.2	25.4	152.2
-19	<b>168.5</b>	28.1	168.5	<b>81.2</b>	12.7	81.2	<b>2.07</b>	151.3	25.2	151.3
-20	<b>164.0</b>	27.3	164.0	<b>80.8</b>	12.7	80.8	<b>2.03</b>	150.4	25.1	150.4
-21	<b>159.6</b>	26.6	159.6	<b>80.3</b>	12.6	80.3	<b>1.99</b>	149.4	24.9	149.4
-22	<b>155.2</b>	25.9	155.2	<b>79.8</b>	12.5	79.8	<b>1.94</b>	148.3	24.7	148.3
-23	<b>150.9</b>	25.2	150.9	<b>79.3</b>	12.4	79.3	<b>1.90</b>	147.2	24.5	147.2
-24	<b>146.7</b>	24.4	146.7	<b>78.8</b>	12.3	78.8	<b>1.86</b>	146.0	24.3	146.0
-25	<b>142.5</b>	23.7	142.5	<b>78.2</b>	12.2	78.2	<b>1.82</b>	144.7	24.1	144.7

\* attention: operating limits not reflected in performance table

# WAMAK AW 300 EVI HeavyDuty 2L3

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	<b>441.0</b>	73.5	441.0	<b>106.3</b>	16.7	106.3	<b>4.15</b>	183.9	30.7	183.9
24	<b>433.1</b>	72.2	433.1	<b>106.4</b>	16.7	106.4	<b>4.07</b>	184.0	30.7	184.0
23	<b>425.4</b>	70.9	425.4	<b>106.5</b>	16.7	106.5	<b>3.99</b>	184.0	30.7	184.0
22	<b>417.8</b>	69.6	417.8	<b>106.6</b>	16.7	106.6	<b>3.92</b>	184.1	30.7	184.1
21	<b>410.2</b>	68.4	410.2	<b>106.6</b>	16.7	106.6	<b>3.85</b>	184.1	30.7	184.1
20	<b>402.8</b>	67.1	402.8	<b>106.7</b>	16.7	106.7	<b>3.77</b>	184.2	30.7	184.2
19	<b>395.5</b>	65.9	395.5	<b>106.8</b>	16.7	106.8	<b>3.70</b>	184.3	30.7	184.3
18	<b>388.2</b>	64.7	388.2	<b>106.8</b>	16.7	106.8	<b>3.63</b>	184.3	30.7	184.3
17	<b>381.1</b>	63.5	381.1	<b>106.9</b>	16.7	106.9	<b>3.56</b>	184.4	30.7	184.4
16	<b>374.1</b>	62.3	374.1	<b>107.0</b>	16.8	107.0	<b>3.50</b>	184.5	30.7	184.5
15	<b>367.1</b>	61.2	367.1	<b>107.0</b>	16.8	107.0	<b>3.43</b>	184.5	30.8	184.5
14	<b>360.3</b>	60.0	360.3	<b>107.1</b>	16.8	107.1	<b>3.36</b>	184.6	30.8	184.6
13	<b>353.5</b>	58.9	353.5	<b>107.1</b>	16.8	107.1	<b>3.30</b>	184.6	30.8	184.6
12	<b>346.8</b>	57.8	346.8	<b>107.1</b>	16.8	107.1	<b>3.24</b>	184.6	30.8	184.6
11	<b>340.2</b>	56.7	340.2	<b>107.2</b>	16.8	107.2	<b>3.17</b>	184.6	30.8	184.6
10	<b>333.7</b>	55.6	333.7	<b>107.2</b>	16.8	107.2	<b>3.11</b>	184.6	30.8	184.6
9	<b>322.0</b>	53.7	322.0	<b>107.2</b>	16.8	107.2	<b>3.00</b>	184.6	30.8	184.6
8	<b>310.9</b>	51.8	310.9	<b>107.2</b>	16.8	107.2	<b>2.90</b>	184.5	30.7	184.5
7	<b>300.5</b>	50.1	300.5	<b>107.1</b>	16.8	107.1	<b>2.81</b>	184.3	30.7	184.3
6	<b>290.9</b>	48.5	290.9	<b>107.0</b>	16.8	107.0	<b>2.72</b>	184.1	30.7	184.1
5	<b>282.0</b>	47.0	282.0	<b>106.9</b>	16.7	106.9	<b>2.64</b>	183.8	30.6	183.8
4	<b>273.8</b>	45.6	273.8	<b>106.7</b>	16.7	106.7	<b>2.57</b>	183.5	30.6	183.5
3	<b>266.2</b>	44.4	266.2	<b>106.5</b>	16.7	106.5	<b>2.50</b>	183.1	30.5	183.1
2	<b>259.3</b>	43.2	259.3	<b>106.3</b>	16.7	106.3	<b>2.44</b>	182.7	30.5	182.7
1	<b>252.9</b>	42.1	252.9	<b>106.1</b>	16.6	106.1	<b>2.38</b>	182.3	30.4	182.3
0	<b>247.1</b>	41.2	247.1	<b>105.9</b>	16.6	105.9	<b>2.33</b>	181.9	30.3	181.9
-1	<b>241.8</b>	40.3	241.8	<b>105.7</b>	16.6	105.7	<b>2.29</b>	181.5	30.2	181.5
-2	<b>237.1</b>	39.5	237.1	<b>105.5</b>	16.5	105.5	<b>2.25</b>	181.0	30.2	181.0
-3	<b>232.9</b>	38.8	232.9	<b>105.3</b>	16.5	105.3	<b>2.21</b>	180.6	30.1	180.6
-4	<b>229.2</b>	38.2	229.2	<b>105.1</b>	16.5	105.1	<b>2.18</b>	180.2	30.0	180.2
-5	<b>225.9</b>	37.7	225.9	<b>104.9</b>	16.4	104.9	<b>2.15</b>	179.8	30.0	179.8
-6	<b>223.2</b>	37.2	223.2	<b>104.8</b>	16.4	104.8	<b>2.13</b>	179.5	29.9	179.5
-7	<b>220.9</b>	36.8	220.9	<b>104.6</b>	16.4	104.6	<b>2.11</b>	179.2	29.9	179.2
-8	<b>219.1</b>	36.5	219.1	<b>104.5</b>	16.4	104.5	<b>2.10</b>	179.0	29.8	179.0
-9	<b>217.7</b>	36.3	217.7	<b>104.4</b>	16.4	104.4	<b>2.09</b>	178.8	29.8	178.8
-10	<b>216.8</b>	36.1	216.8	<b>104.4</b>	16.3	104.4	<b>2.08</b>	178.7	29.8	178.7
-11	<b>211.7</b>	35.3	211.7	<b>104.0</b>	16.3	104.0	<b>2.04</b>	177.9	29.7	177.9
-12	<b>206.6</b>	34.4	206.6	<b>103.6</b>	16.2	103.6	<b>1.99</b>	177.1	29.5	177.1
-13	<b>201.6</b>	33.6	201.6	<b>103.2</b>	16.2	103.2	<b>1.95</b>	176.3	29.4	176.3
-14	<b>196.6</b>	32.8	196.6	<b>102.7</b>	16.1	102.7	<b>1.91</b>	175.4	29.2	175.4
-15	<b>191.7</b>	31.9	191.7	<b>102.3</b>	16.0	102.3	<b>1.87</b>	174.4	29.1	174.4
-16	<b>186.8</b>	31.1	186.8	<b>101.8</b>	15.9	101.8	<b>1.84</b>	173.4	28.9	173.4
-17	<b>182.0</b>	30.3	182.0	<b>101.2</b>	15.9	101.2	<b>1.80</b>	172.3	28.7	172.3
-18	<b>177.3</b>	29.5	177.3	<b>100.7</b>	15.8	100.7	<b>1.76</b>	171.1	28.5	171.1
-19	<b>172.6</b>	28.8	172.6	<b>100.1</b>	15.7	100.1	<b>1.72</b>	169.9	28.3	169.9
-20	<b>167.9</b>	28.0	167.9	<b>99.4</b>	15.6	99.4	<b>1.69</b>	168.6	28.1	168.6
-21	<b>163.3</b>	27.2	163.3	<b>98.8</b>	15.5	98.8	<b>1.65</b>	167.2	27.9	167.2
-22	<b>158.7</b>	26.4	158.7	<b>98.1</b>	15.4	98.1	<b>1.62</b>	165.7	27.6	165.7
-23	<b>154.1</b>	25.7	154.1	<b>97.3</b>	15.2	97.3	<b>1.58</b>	164.2	27.4	164.2
-24	<b>149.6</b>	24.9	149.6	<b>96.6</b>	15.1	96.6	<b>1.55</b>	162.6	27.1	162.6
-25	<b>145.2</b>	24.2	145.2	<b>95.8</b>	15.0	95.8	<b>1.52</b>	160.9	26.8	160.9

\* attention: operating limits not reflected in performance table

# WAMAK AW 300 EVI HeavyDuty 2L3

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	<b>437.8</b>	73.0	437.8	<b>135.6</b>	21.2	135.6	<b>3.23</b>	216.8	36.1	216.8
24	<b>430.5</b>	71.8	430.5	<b>135.7</b>	21.2	135.7	<b>3.17</b>	217.0	36.2	217.0
23	<b>423.3</b>	70.5	423.3	<b>135.7</b>	21.3	135.7	<b>3.12</b>	217.2	36.2	217.2
22	<b>416.1</b>	69.4	416.1	<b>135.8</b>	21.3	135.8	<b>3.06</b>	217.3	36.2	217.3
21	<b>409.1</b>	68.2	409.1	<b>135.9</b>	21.3	135.9	<b>3.01</b>	217.5	36.2	217.5
20	<b>402.1</b>	67.0	402.1	<b>135.9</b>	21.3	135.9	<b>2.96</b>	217.6	36.3	217.6
19	<b>395.2</b>	65.9	395.2	<b>136.0</b>	21.3	136.0	<b>2.91</b>	217.7	36.3	217.7
18	<b>388.4</b>	64.7	388.4	<b>136.0</b>	21.3	136.0	<b>2.86</b>	217.9	36.3	217.9
17	<b>381.7</b>	63.6	381.7	<b>136.1</b>	21.3	136.1	<b>2.81</b>	218.0	36.3	218.0
16	<b>375.1</b>	62.5	375.1	<b>136.1</b>	21.3	136.1	<b>2.76</b>	218.1	36.3	218.1
15	<b>368.5</b>	61.4	368.5	<b>136.1</b>	21.3	136.1	<b>2.71</b>	218.2	36.4	218.2
14	<b>362.0</b>	60.3	362.0	<b>136.1</b>	21.3	136.1	<b>2.66</b>	218.2	36.4	218.2
13	<b>355.6</b>	59.3	355.6	<b>136.1</b>	21.3	136.1	<b>2.61</b>	218.3	36.4	218.3
12	<b>349.3</b>	58.2	349.3	<b>136.1</b>	21.3	136.1	<b>2.57</b>	218.3	36.4	218.3
11	<b>343.0</b>	57.2	343.0	<b>136.0</b>	21.3	136.0	<b>2.52</b>	218.3	36.4	218.3
10	<b>336.8</b>	56.1	336.8	<b>136.0</b>	21.3	136.0	<b>2.48</b>	218.3	36.4	218.3
9	<b>325.5</b>	54.2	325.5	<b>135.9</b>	21.3	135.9	<b>2.40</b>	218.2	36.4	218.2
8	<b>314.9</b>	52.5	314.9	<b>135.7</b>	21.2	135.7	<b>2.32</b>	218.0	36.3	218.0
7	<b>304.9</b>	50.8	304.9	<b>135.4</b>	21.2	135.4	<b>2.25</b>	217.7	36.3	217.7
6	<b>295.5</b>	49.3	295.5	<b>135.2</b>	21.2	135.2	<b>2.19</b>	217.4	36.2	217.4
5	<b>286.9</b>	47.8	286.9	<b>134.9</b>	21.1	134.9	<b>2.13</b>	216.9	36.2	216.9
4	<b>278.8</b>	46.5	278.8	<b>134.5</b>	21.1	134.5	<b>2.07</b>	216.4	36.1	216.4
3	<b>271.4</b>	45.2	271.4	<b>134.2</b>	21.0	134.2	<b>2.02</b>	215.9	36.0	215.9
2	<b>264.6</b>	44.1	264.6	<b>133.8</b>	21.0	133.8	<b>1.98</b>	215.3	35.9	215.3
1	<b>258.3</b>	43.0	258.3	<b>133.5</b>	20.9	133.5	<b>1.94</b>	214.7	35.8	214.7
0	<b>252.5</b>	42.1	252.5	<b>133.1</b>	20.8	133.1	<b>1.90</b>	214.1	35.7	214.1
-1	<b>247.3</b>	41.2	247.3	<b>132.7</b>	20.8	132.7	<b>1.86</b>	213.5	35.6	213.5
-2	<b>242.6</b>	40.4	242.6	<b>132.4</b>	20.7	132.4	<b>1.83</b>	212.9	35.5	212.9
-3	<b>238.4</b>	39.7	238.4	<b>132.0</b>	20.7	132.0	<b>1.81</b>	212.4	35.4	212.4
-4	<b>234.6</b>	39.1	234.6	<b>131.7</b>	20.6	131.7	<b>1.78</b>	211.8	35.3	211.8
-5	<b>231.4</b>	38.6	231.4	<b>131.4</b>	20.6	131.4	<b>1.76</b>	211.3	35.2	211.3
-6	<b>228.6</b>	38.1	228.6	<b>131.1</b>	20.5	131.1	<b>1.74</b>	210.9	35.1	210.9
-7	<b>226.3</b>	37.7	226.3	<b>130.9</b>	20.5	130.9	<b>1.73</b>	210.5	35.1	210.5
-8	<b>224.5</b>	37.4	224.5	<b>130.7</b>	20.5	130.7	<b>1.72</b>	210.2	35.0	210.2
-9	<b>223.1</b>	37.2	223.1	<b>130.6</b>	20.5	130.6	<b>1.71</b>	209.9	35.0	209.9
-10	<b>222.2</b>	37.0	222.2	<b>130.5</b>	20.4	130.5	<b>1.70</b>	209.8	35.0	209.8
-11	<b>217.0</b>	36.2	217.0	<b>130.0</b>	20.4	130.0	<b>1.67</b>	208.8	34.8	208.8
-12	<b>211.8</b>	35.3	211.8	<b>129.4</b>	20.3	129.4	<b>1.64</b>	207.7	34.6	207.7
-13	<b>206.7</b>	34.4	206.7	<b>128.7</b>	20.2	128.7	<b>1.61</b>	206.6	34.4	206.6
-14	<b>201.6</b>	33.6	201.6	<b>128.1</b>	20.1	128.1	<b>1.57</b>	205.5	34.2	205.5
-15	<b>196.5</b>	32.8	196.5	<b>127.4</b>	20.0	127.4	<b>1.54</b>	204.2	34.0	204.2
-16										
-17										
-18										
-19										
-20										
-21										
-22										
-23										
-24										
-25										

\* attention: operating limits not reflected in performance table

# WAMAK AW 300 EVI HeavyDuty 2L3

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	<b>211.2</b>	211.2	211.2	<b>91.2</b>	85.7	91.2	<b>2.32</b>	166.4	166.4	166.4
39	<b>212.7</b>	212.7	212.7	<b>89.2</b>	83.8	89.2	<b>2.38</b>	164.2	164.2	164.2
38	<b>214.2</b>	214.2	214.2	<b>87.2</b>	82.0	87.2	<b>2.46</b>	162.0	162.0	162.0
37	<b>215.6</b>	215.6	215.6	<b>85.3</b>	80.1	85.3	<b>2.53</b>	159.9	159.9	159.9
36	<b>217.0</b>	217.0	217.0	<b>83.4</b>	78.4	83.4	<b>2.60</b>	157.9	157.9	157.9
35	<b>218.3</b>	218.3	218.3	<b>81.6</b>	76.6	81.6	<b>2.68</b>	155.9	155.9	155.9
34	<b>219.6</b>	219.6	219.6	<b>79.8</b>	75.0	79.8	<b>2.75</b>	153.9	153.9	153.9
33	<b>220.8</b>	220.8	220.8	<b>78.0</b>	73.3	78.0	<b>2.83</b>	152.0	152.0	152.0
32	<b>222.0</b>	222.0	222.0	<b>76.3</b>	71.7	76.3	<b>2.91</b>	150.2	150.2	150.2
31	<b>223.2</b>	223.2	223.2	<b>74.6</b>	70.1	74.6	<b>2.99</b>	148.4	148.4	148.4
30	<b>224.3</b>	224.3	224.3	<b>73.0</b>	68.6	73.0	<b>3.07</b>	146.7	146.7	146.7
29	<b>225.4</b>	225.4	225.4	<b>71.4</b>	67.1	71.4	<b>3.16</b>	144.9	144.9	144.9
28	<b>226.5</b>	226.5	226.5	<b>69.8</b>	65.6	69.8	<b>3.24</b>	143.2	143.2	143.2
27	<b>227.5</b>	227.5	227.5	<b>68.3</b>	64.2	68.3	<b>3.33</b>	141.6	141.6	141.6
26	<b>228.5</b>	228.5	228.5	<b>66.8</b>	62.8	66.8	<b>3.42</b>	140.0	140.0	140.0
25	<b>229.4</b>	229.4	229.4	<b>65.3</b>	61.4	65.3	<b>3.51</b>	138.4	138.4	138.4
24	<b>230.3</b>	230.3	230.3	<b>63.9</b>	60.0	63.9	<b>3.60</b>	136.8	136.8	136.8
23	<b>231.2</b>	231.2	231.2	<b>62.5</b>	58.7	62.5	<b>3.70</b>	135.2	135.2	135.2
22	<b>232.0</b>	232.0	232.0	<b>61.1</b>	57.4	61.1	<b>3.80</b>	133.7	133.7	133.7
21	<b>232.8</b>	232.8	232.8	<b>59.7</b>	56.1	59.7	<b>3.90</b>	132.2	132.2	132.2
20	<b>233.6</b>	233.6	233.6	<b>58.4</b>	54.8	58.4	<b>4.00</b>	130.7	130.7	130.7
19	<b>234.3</b>	234.3	234.3	<b>57.0</b>	53.6	57.0	<b>4.11</b>	129.2	129.2	129.2
18	<b>235.0</b>	235.0	235.0	<b>55.7</b>	52.4	55.7	<b>4.22</b>	127.6	127.6	127.6
17	<b>235.7</b>	235.7	235.7	<b>54.4</b>	51.1	54.4	<b>4.33</b>	126.1	126.1	126.1

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	<b>281.7</b>	281.7	281.7	<b>91.2</b>	85.7	91.2	<b>3.09</b>	166.3	166.3	166.3
39	<b>283.5</b>	283.5	283.5	<b>89.2</b>	83.8	89.2	<b>3.18</b>	164.0	164.0	164.0
38	<b>285.3</b>	285.3	285.3	<b>87.2</b>	82.0	87.2	<b>3.27</b>	161.7	161.7	161.7
37	<b>287.1</b>	287.1	287.1	<b>85.3</b>	80.1	85.3	<b>3.37</b>	159.5	159.5	159.5
36	<b>288.9</b>	288.9	288.9	<b>83.4</b>	78.4	83.4	<b>3.46</b>	157.3	157.3	157.3
35	<b>290.6</b>	290.6	290.6	<b>81.6</b>	76.6	81.6	<b>3.56</b>	155.2	155.2	155.2
34	<b>292.2</b>	292.2	292.2	<b>79.8</b>	75.0	79.8	<b>3.66</b>	153.2	153.2	153.2
33	<b>293.8</b>	293.8	293.8	<b>78.0</b>	73.3	78.0	<b>3.77</b>	151.2	151.2	151.2
32	<b>295.4</b>	295.4	295.4	<b>76.3</b>	71.7	76.3	<b>3.87</b>	149.2	149.2	149.2
31	<b>297.0</b>	297.0	297.0	<b>74.6</b>	70.1	74.6	<b>3.98</b>	147.3	147.3	147.3
30	<b>298.5</b>	298.5	298.5	<b>73.0</b>	68.6	73.0	<b>4.09</b>	145.4	145.4	145.4
29	<b>299.9</b>	299.9	299.9	<b>71.4</b>	67.1	71.4	<b>4.20</b>	143.6	143.6	143.6
28	<b>301.4</b>	301.4	301.4	<b>69.8</b>	65.6	69.8	<b>4.32</b>	141.7	141.7	141.7
27	<b>302.8</b>	302.8	302.8	<b>68.3</b>	64.2	68.3	<b>4.43</b>	139.9	139.9	139.9
26	<b>304.1</b>	304.1	304.1	<b>66.8</b>	62.8	66.8	<b>4.55</b>	138.2	138.2	138.2
25	<b>305.4</b>	305.4	305.4	<b>65.3</b>	61.4	65.3	<b>4.67</b>	136.4	136.4	136.4
24	<b>306.7</b>	306.7	306.7	<b>63.9</b>	60.0	63.9	<b>4.80</b>	134.7	134.7	134.7
23	<b>308.0</b>	308.0	308.0	<b>62.5</b>	58.7	62.5	<b>4.93</b>	133.0	133.0	133.0
22	<b>309.2</b>	309.2	309.2	<b>61.1</b>	57.4	61.1	<b>5.06</b>	131.3	131.3	131.3
21	<b>310.3</b>	310.3	310.3	<b>59.7</b>	56.1	59.7	<b>5.20</b>	129.6	129.6	129.6
20	<b>311.5</b>	311.5	311.5	<b>58.4</b>	54.8	58.4	<b>5.34</b>	127.9	127.9	127.9
19	<b>312.6</b>	312.6	312.6	<b>57.0</b>	53.6	57.0	<b>5.48</b>	126.2	126.2	126.2
18	<b>313.7</b>	313.7	313.7	<b>55.7</b>	52.4	55.7	<b>5.63</b>	124.5	124.5	124.5
17	<b>314.7</b>	314.7	314.7	<b>54.4</b>	51.1	54.4	<b>5.78</b>	122.8	122.8	122.8

\* 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

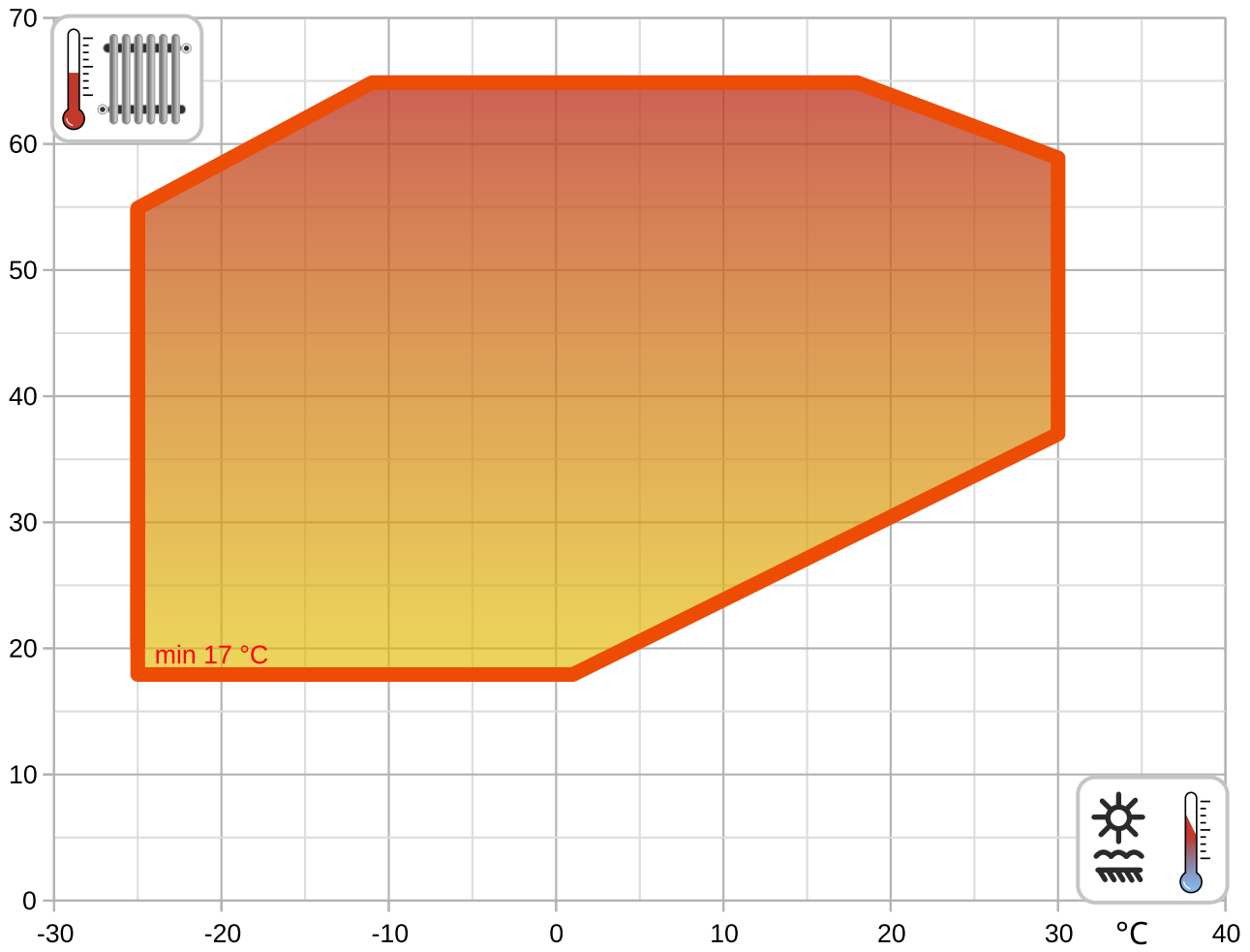
Qc max: cooling / heat extraction at maximal heating capacity

I nom: Current at nominal heating capacity

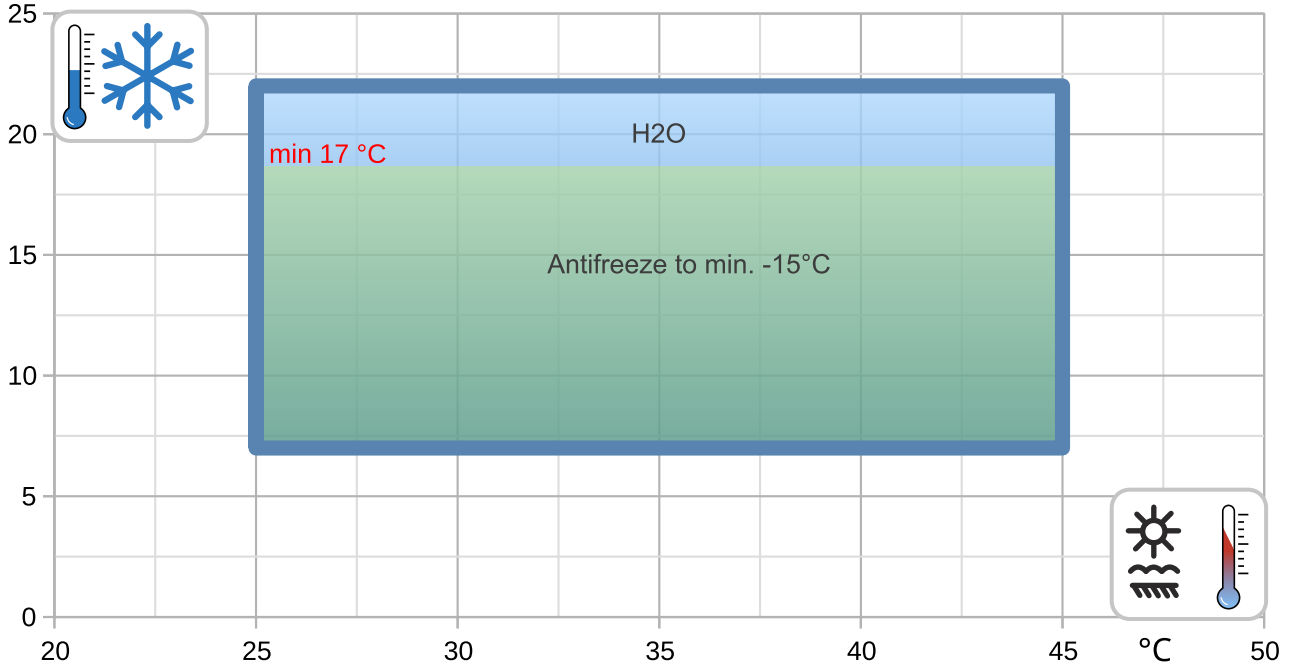
EER: energy efficiency ratio at nominal cooling capacity

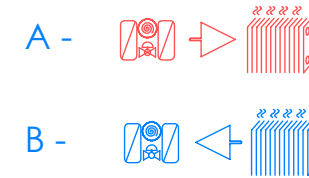
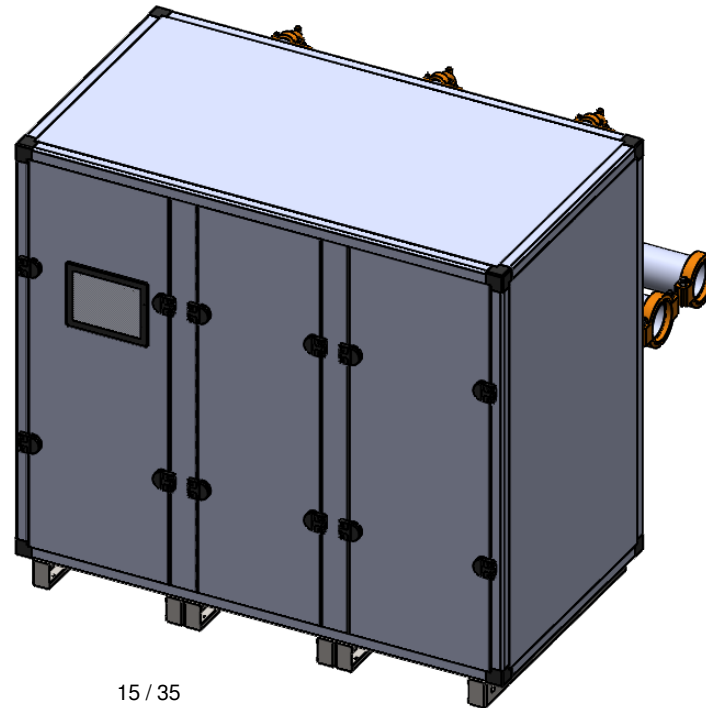
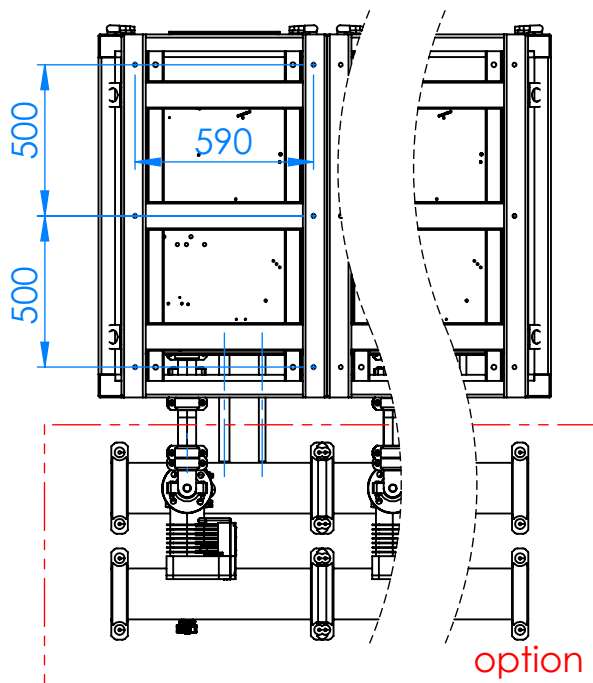
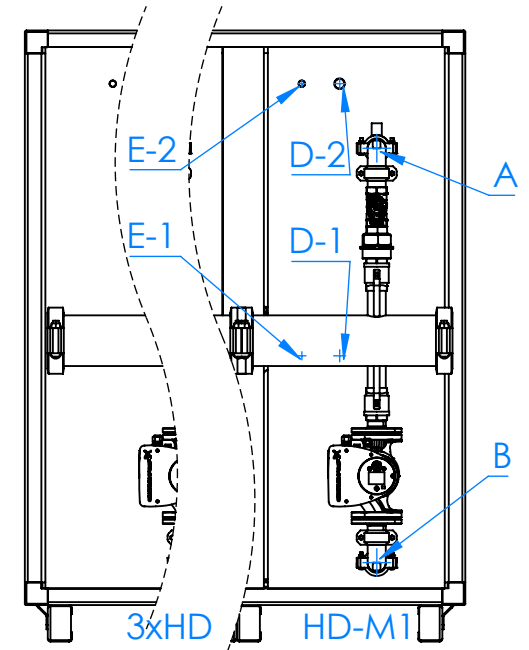
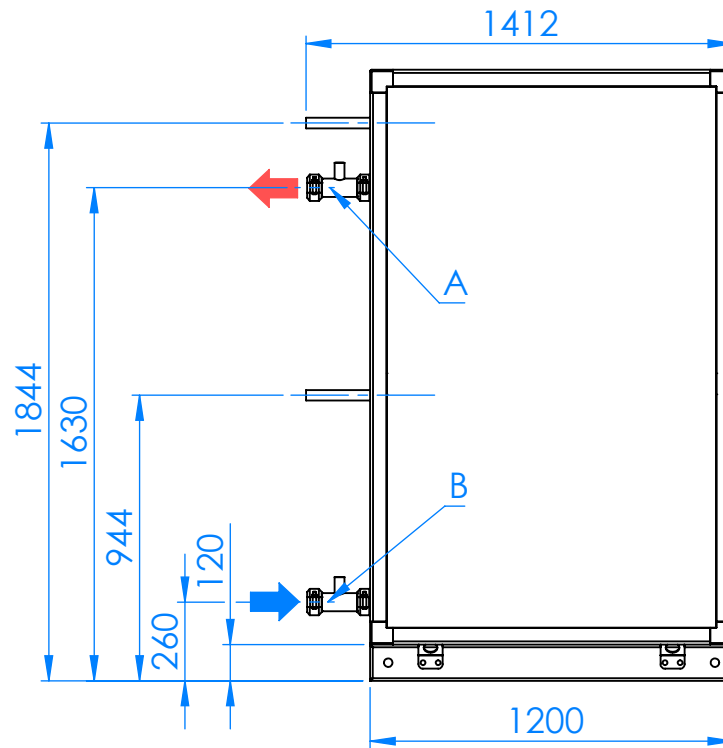
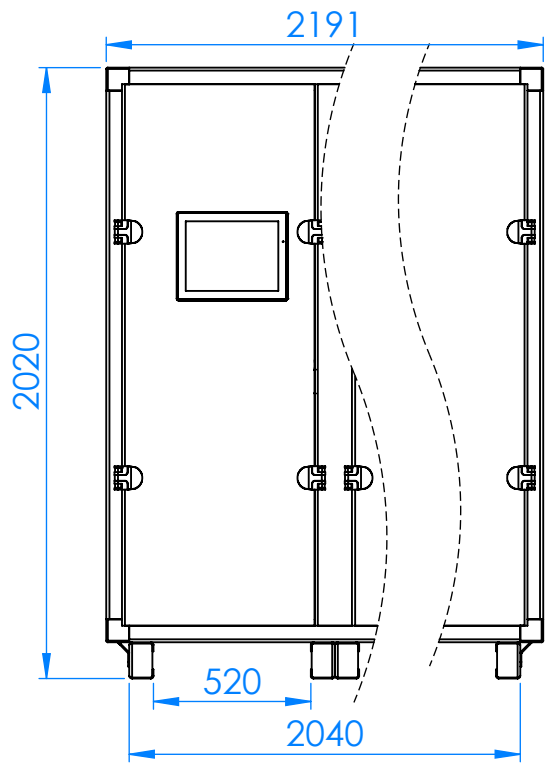
## Operating limits

°C



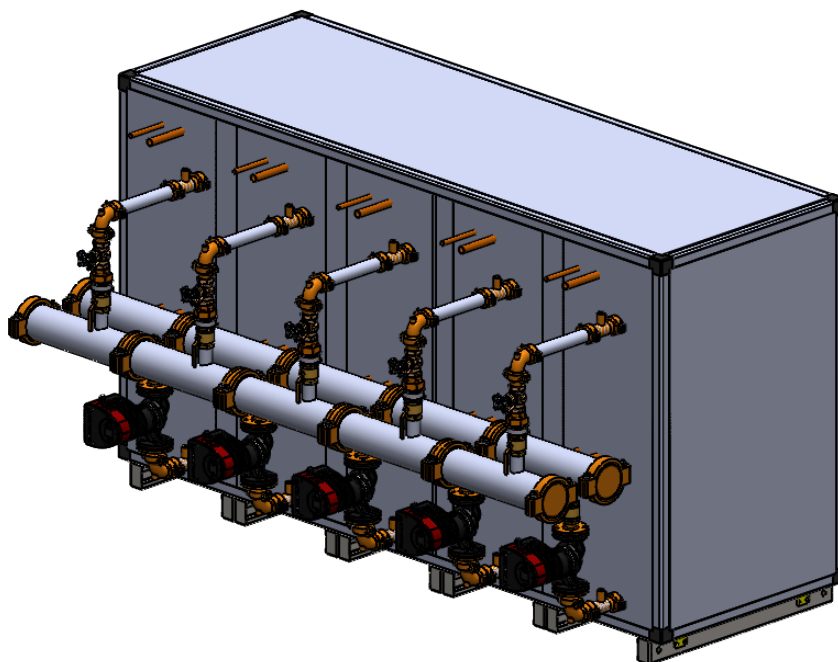
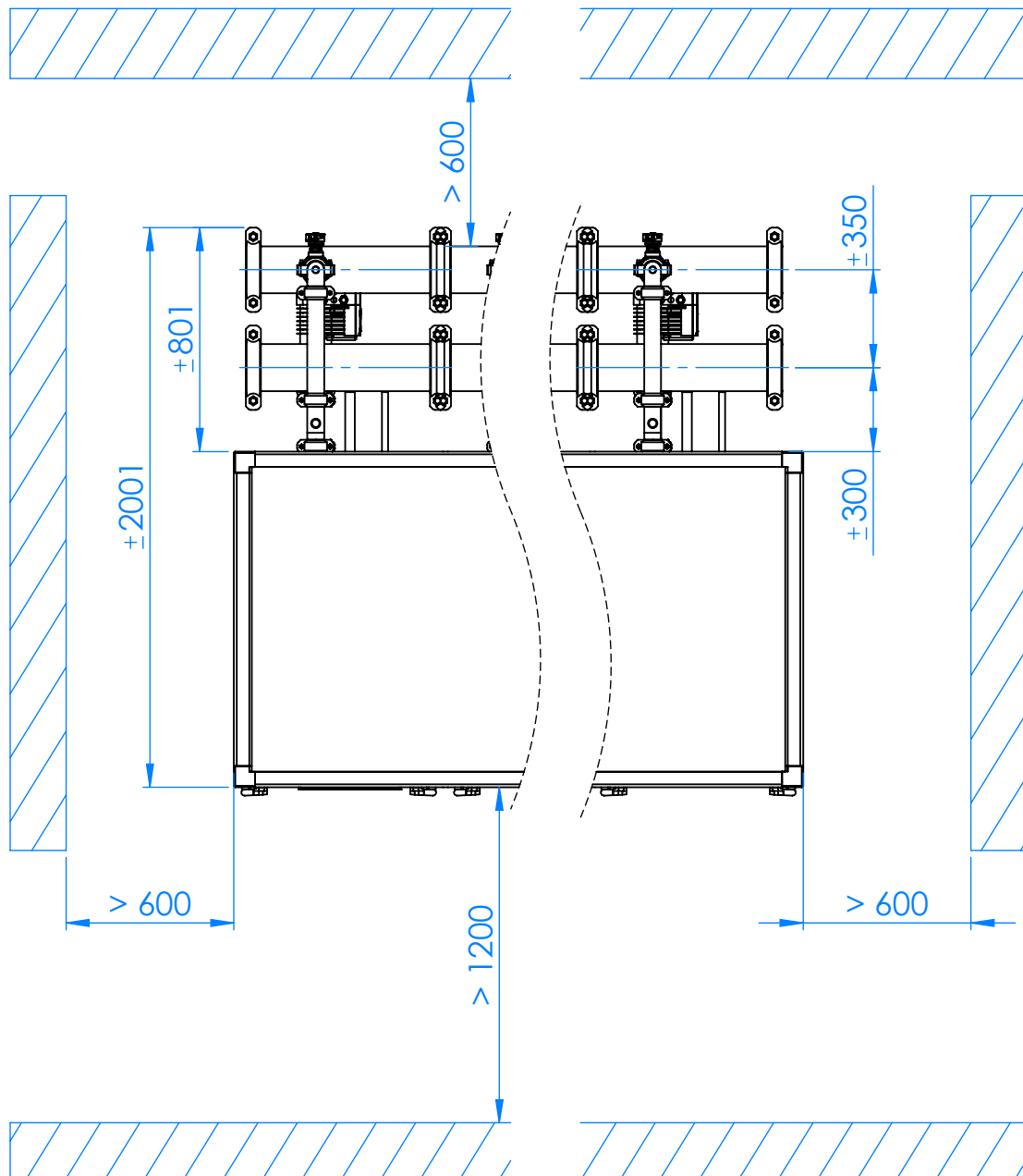
°C





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

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





# WAMAK AW 300 EVI HeavyDuty 2L3 - Split unit variant: VOV900X2-FRAME

Number of units needed

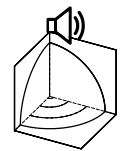
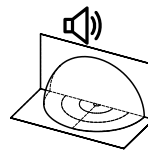
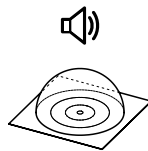
3



Enclosure type: VOV900X2-FRAME			Evaporator	
Article	WAVV2X90		Type	Cu-coil /Al-fin "
<b>Basic dimensions</b>	Height [mm]	1400	Port size	6 x (7/8" - 1.3/8") "
	Width [mm]	1500	Heat transfer medium	Air
	Length [mm]	2300	Volume flow - Air [m3/h]	15073 ~ 90440
Weight [kg]	430		Internal pressure drop - Air [kPa]	6 x 0.061
Colour	Inox		Temperature difference - Air	7 K
Enclosure IP Class	IP44		Expansion valve	EEV
<b>Fan</b>	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

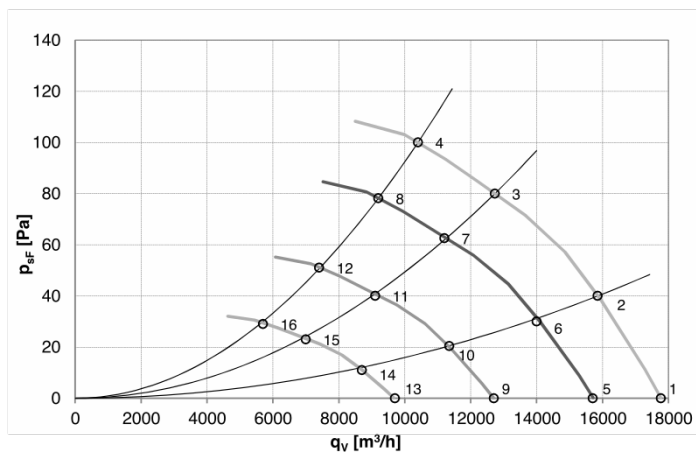
Acoustic power Lw

77.9 dB(A)

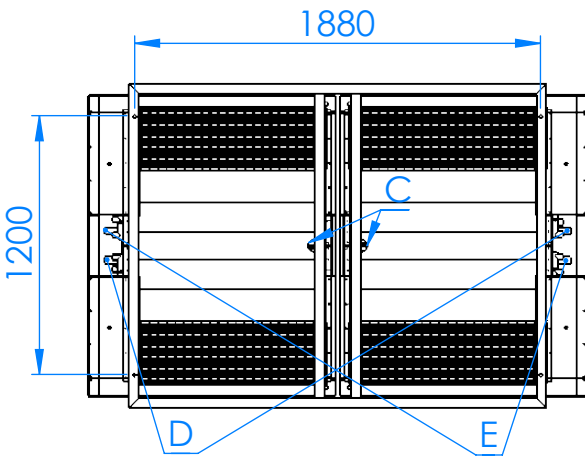
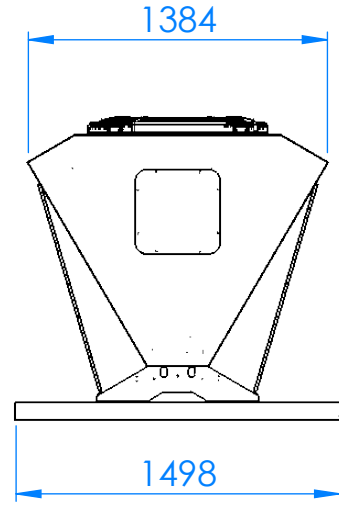
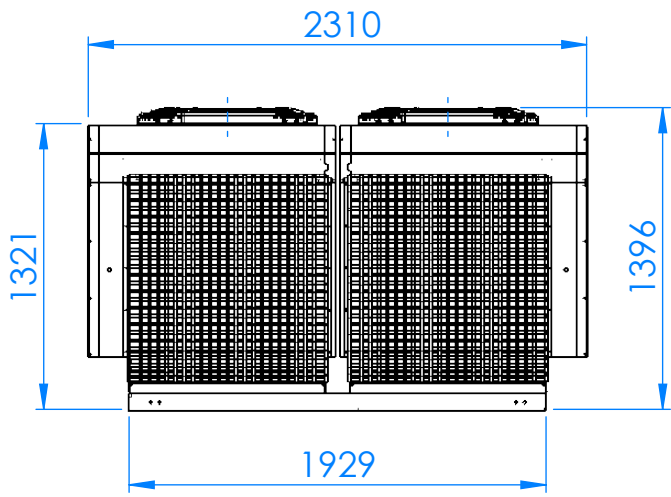


Distance [m]	1				5				10				15			
	1	5	10	15	1	5	10	15	1	5	10	15	1	5	10	15
Acoustic pressure Lp [dB(A)]	72.9	58.9	52.9	49.4	75.9	61.9	55.9	52.4	69.9	55.9	49.9	46.4				

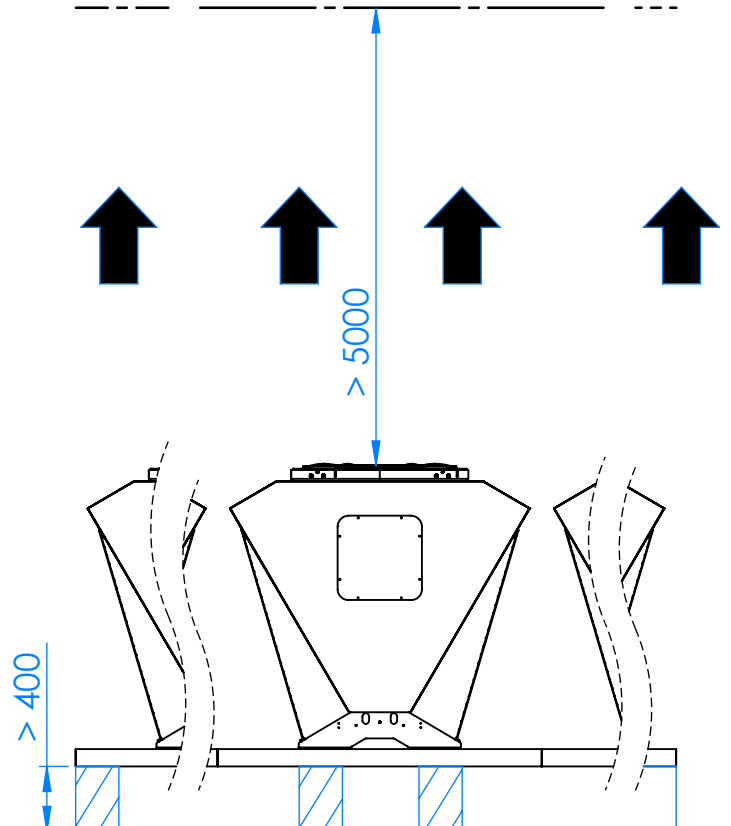
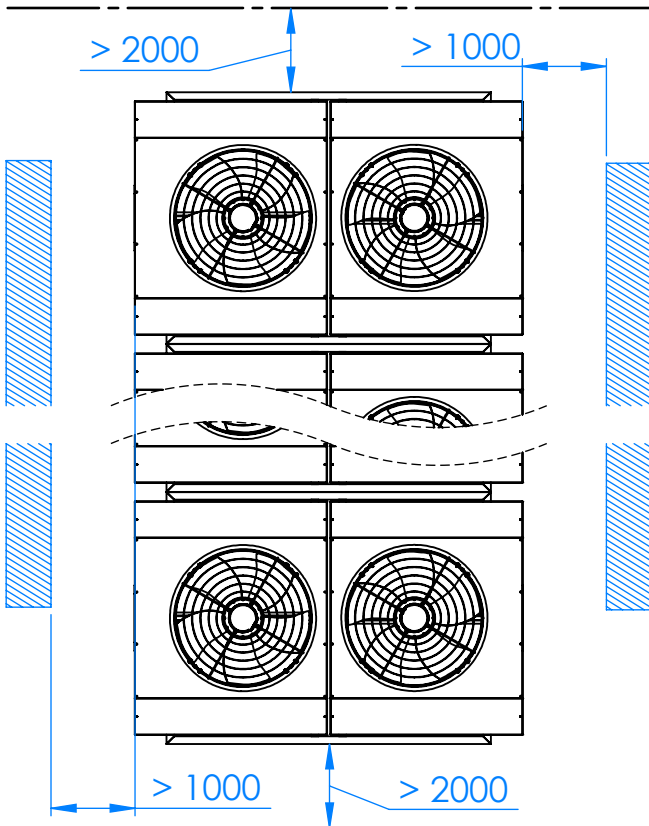
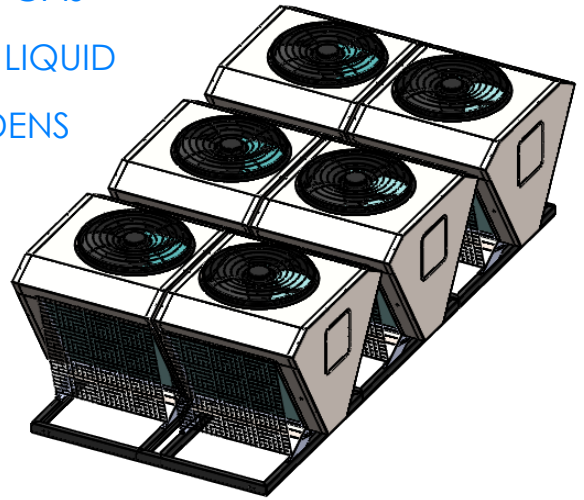
## EC Fan 800mm



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



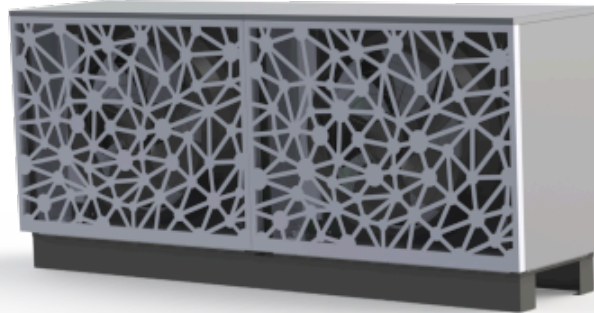
D - FRIGO GAS  
E - FRIGO LIQUID  
C - CONDENS



# WAMAK AW 300 EVI HeavyDuty 2L3 - Split unit variant: VOII-1200-2LOW

## Number of units needed

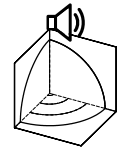
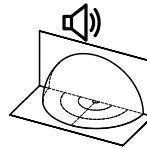
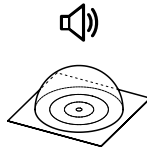
6



Enclosure type: VOII-1200-2LOW			Evaporator	
Article	WAVII12L		Type	Cu-coil /Al-fin "
<b>Basic dimensions</b>	Height [mm]	1240	Port size	6 x (7/8" - 1.3/8") "
	Width [mm]	2850	Heat transfer medium	Air
	Length [mm]	710	Volume flow - Air [m3/h]	15073 ~ 90440
Weight [kg]	300		Internal pressure drop - Air [kPa]	6 x 0.061
Colour	Gray		Temperature difference - Air	7 K
Enclosure IP Class	IP44		Expansion valve	EEV
<b>Fan</b>	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

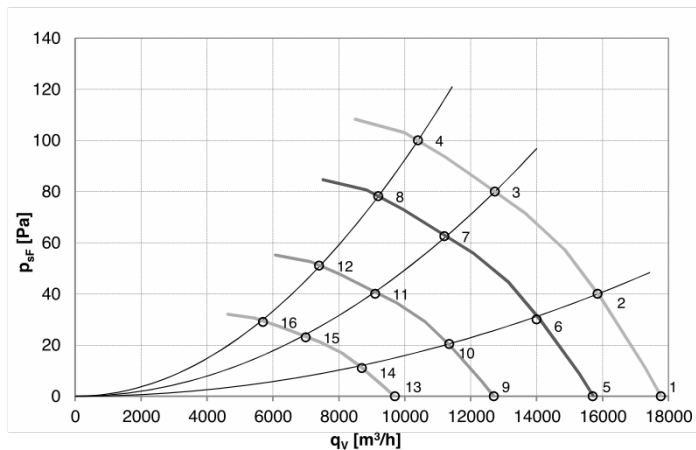
Acoustic power Lw

74.6 dB(A)



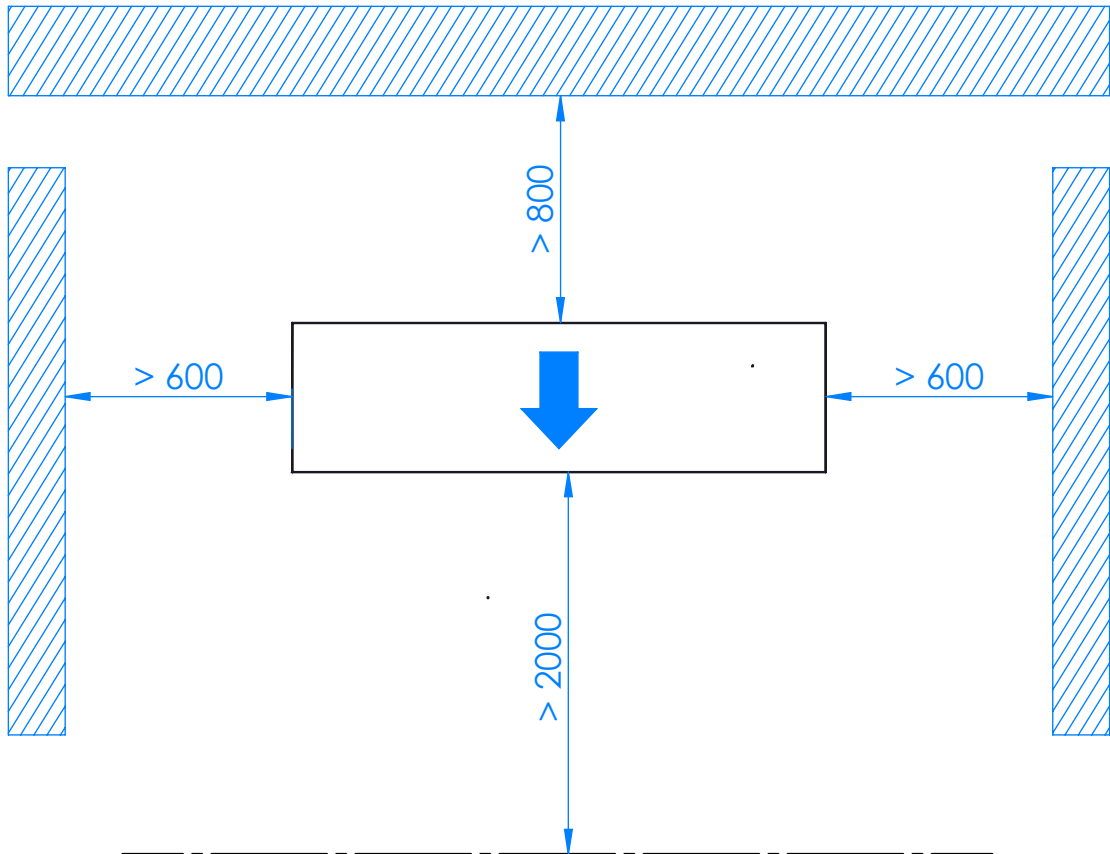
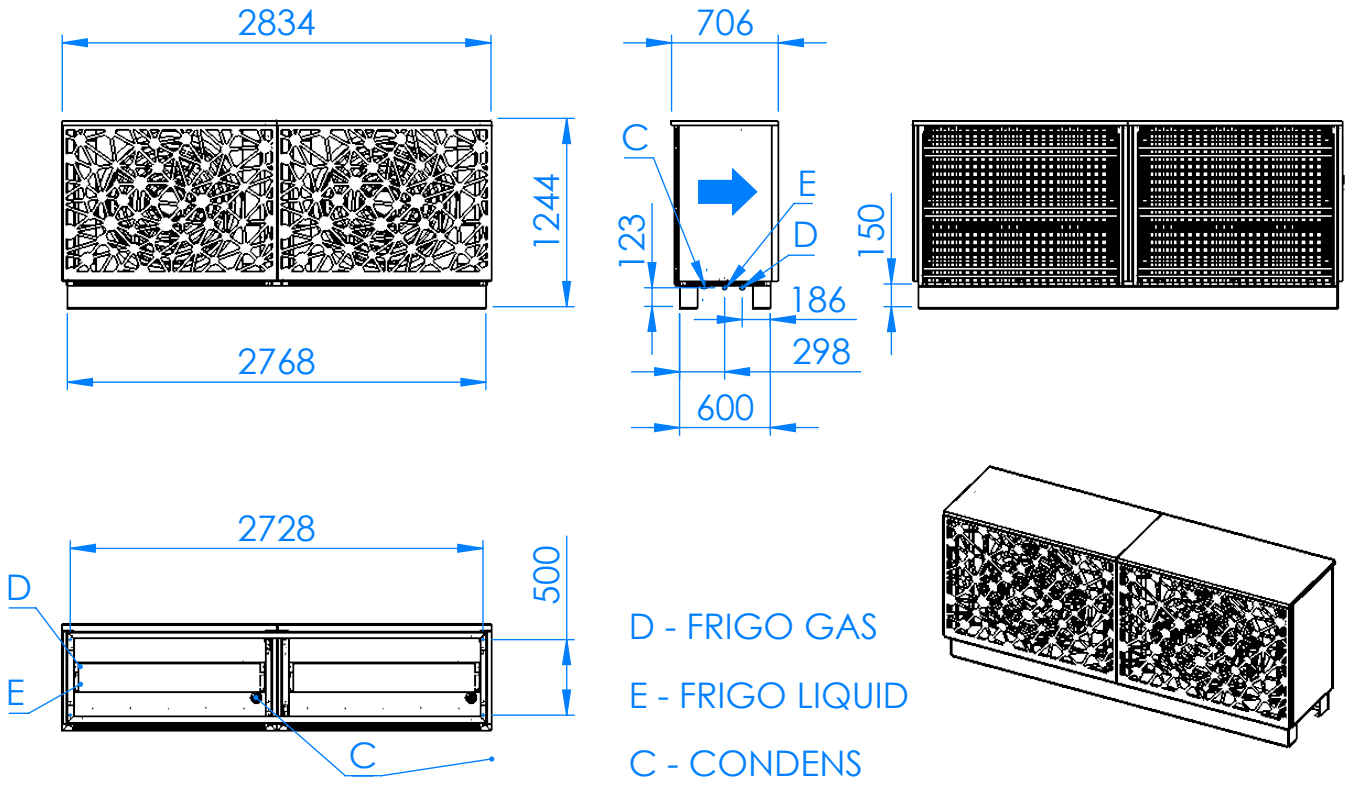
Distance [m]	1				5				10				15			
	1	5	10	15	1	5	10	15	1	5	10	15	1	5	10	15
Acoustic pressure Lp [dB(A)]	69.6	55.6	49.6	46.1	72.6	58.6	52.6	49.1	66.6	52.6	46.6	43.1				

## 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

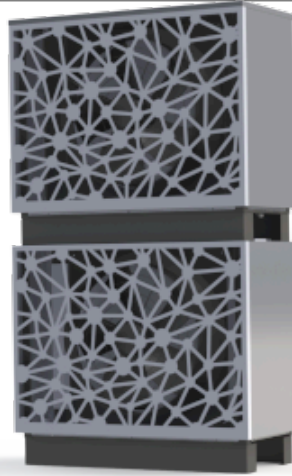
WAMAK AW 300 EVI HeavyDuty 2L3



# WAMAK AW 300 EVI HeavyDuty 2L3 - Split unit variant: VOII-1200-2HIGH

## Number of units needed

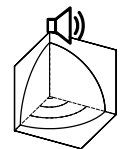
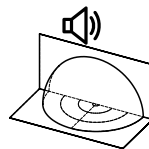
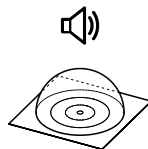
6



Enclosure type: VOII-1200-2HIGH			Evaporator	
Article	WAVII12H		Type	Cu-coil /Al-fin "
<b>Basic dimensions</b>	Height [mm]	2450	Port size	6 x (7/8" - 1.3/8") "
	Width [mm]	1420	Heat transfer medium	Air
	Length [mm]	710	Volume flow - Air [m3/h]	15073 ~ 90440
Weight [kg]	300		Internal pressure drop - Air [kPa]	6 x 0.061
Colour	Gray		Temperature difference - Air	7 K
Enclosure IP Class	IP44		Expansion valve	EEV
<b>Fan</b>	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

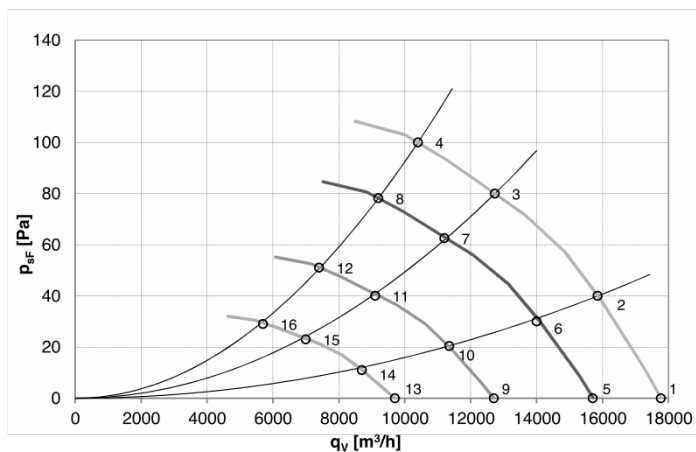
Acoustic power Lw

74.6 dB(A)



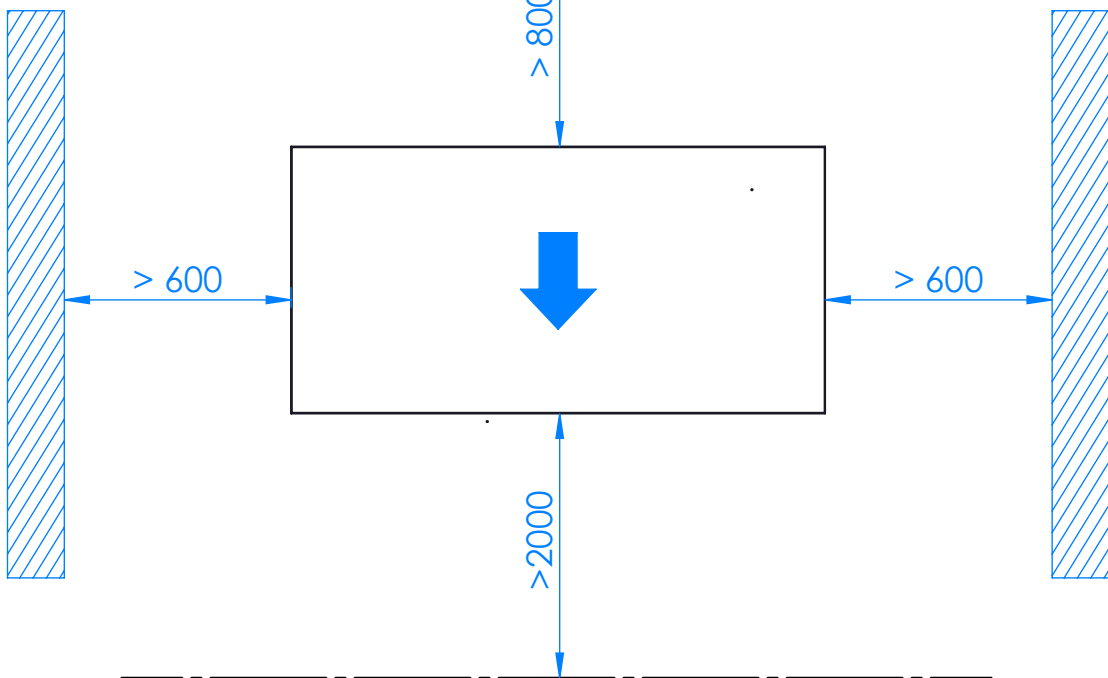
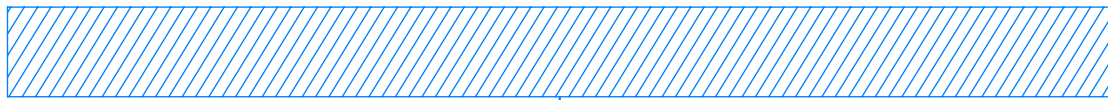
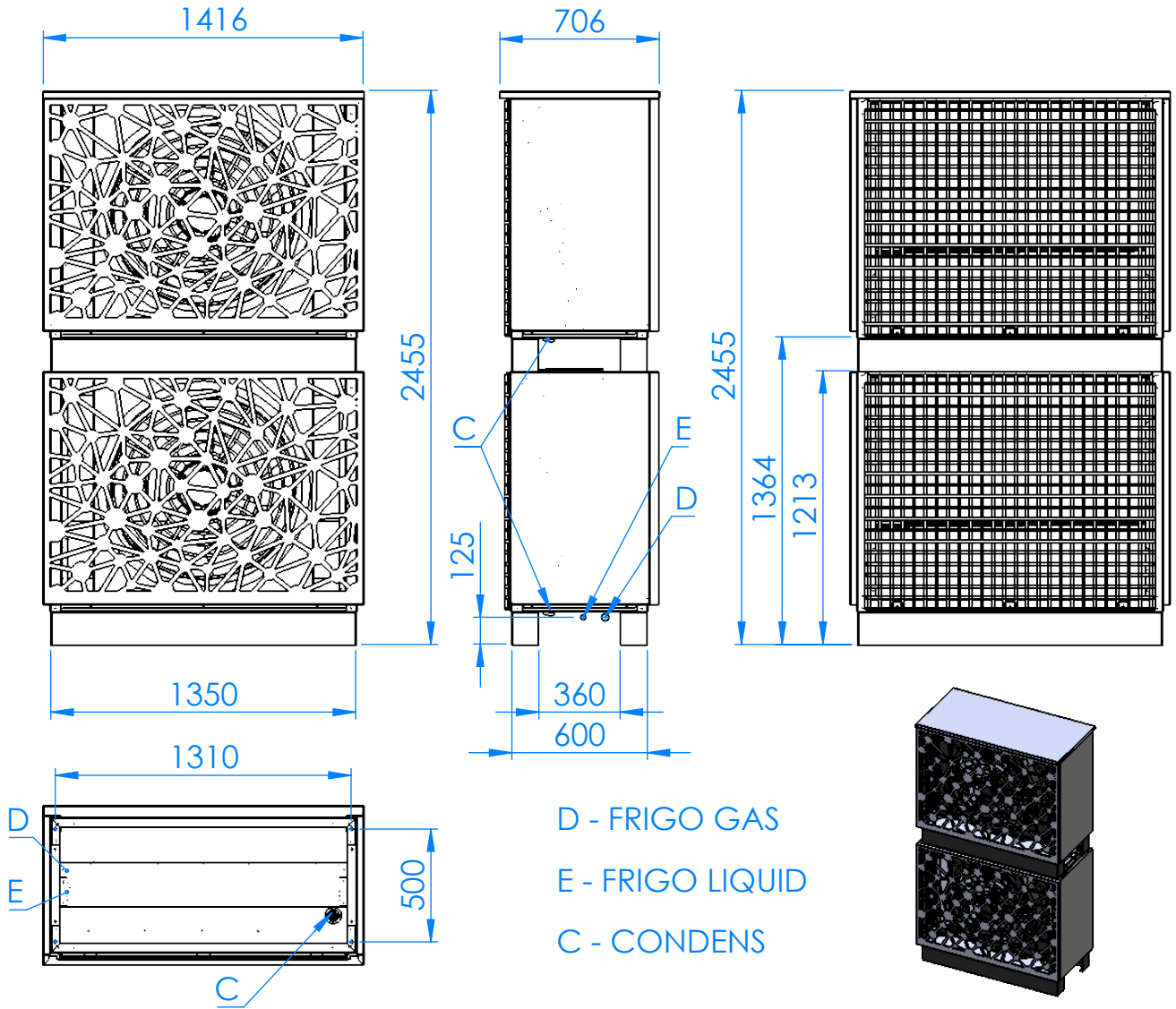
Distance [m]	1				5				10				15			
	1	5	10	15	1	5	10	15	1	5	10	15	1	5	10	15
Acoustic pressure Lp [dB(A)]	69.6	55.6	49.6	46.1	72.6	58.6	52.6	49.1	66.6	52.6	46.6	43.1				

## 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

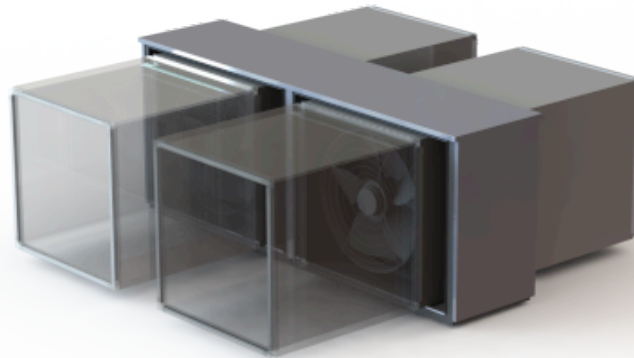
WAMAK AW 300 EVI HeavyDuty 2L3



# WAMAK AW 300 EVI HeavyDuty 2L3 - Split unit variant: VOII-1200-2LOW-DUCT

## Number of units needed

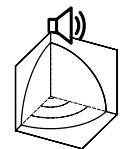
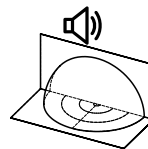
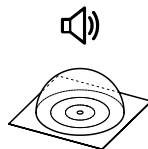
6



Enclosure type: VOII-1200-2LOW-DUCT			Evaporator	
Article	WAVID12L		Type	Cu-coil /Al-fin "
<b>Basic dimensions</b>	Height [mm]	1240	Port size	6 x (7/8" - 1.3/8") "
	Width [mm]	2850	Heat transfer medium	Air
	Length [mm]	710	Volume flow - Air [m3/h]	15073 ~ 90440
Weight [kg]	300		Internal pressure drop - Air [kPa]	6 x 0.061
Colour	Gray		Temperature difference - Air	7 K
Enclosure IP Class	IP44		Expansion valve	EEV
<b>Fan</b>	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

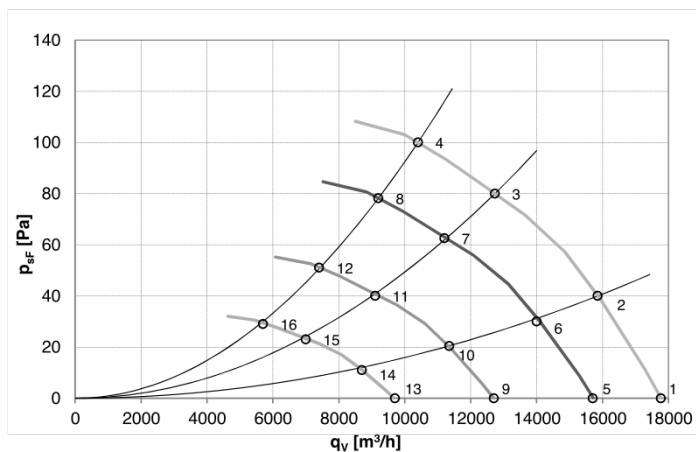
Acoustic power Lw

74.6 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)]	69.6	55.6	49.6	46.1	72.6	58.6	52.6	49.1	66.6	52.6	46.6	43.1				

## EC Fan 800mm

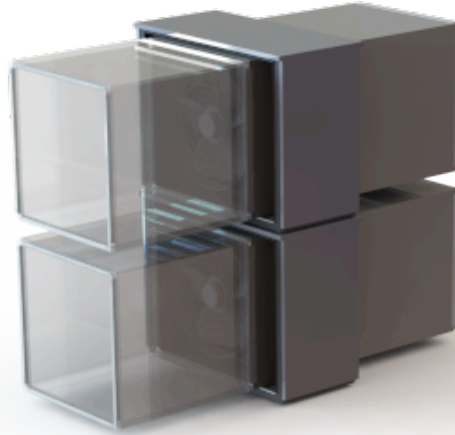


	U	f	n	qv	P <sub>sF</sub>	P <sub>e</sub>	I	L <sub>WA out</sub>	T <sub>a max</sub>
	[V]	[Hz]	[RPM]	[m³/h]	[Pa]	[W]	[A]	[dB (A)]	[°C]
1	400	50	735	17770	0	503	0,85	70	60
2	400	50	735	15850	40	612	1,02	66	60
3	400	50	735	12730	80	735	1,18	65	60
4	400	50	735	10400	100	802	1,36	68	60
5	400	50	650	15700	0	348	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 300 EVI HeavyDuty 2L3 - Split unit variant: VOII-1200-2HIGH-DUCT

Number of units needed

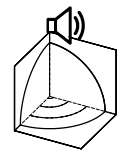
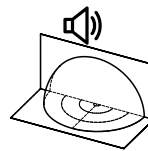
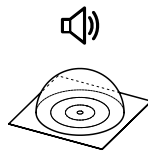
6



Enclosure type: VOII-1200-2HIGH-DUCT			Evaporator	
Article	WAVID12H		Type	Cu-coil /Al-fin "
<b>Basic dimensions</b>	Height [mm]	2450	Port size	6 x (7/8" - 1.3/8") "
	Width [mm]	1420	Heat transfer medium	Air
	Length [mm]	710	Volume flow - Air [m3/h]	15073 ~ 90440
Weight [kg]	300		Internal pressure drop - Air [kPa]	6 x 0.061
Colour	Gray		Temperature difference - Air	7 K
Enclosure IP Class	IP44		Expansion valve	EEV
<b>Fan</b>	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

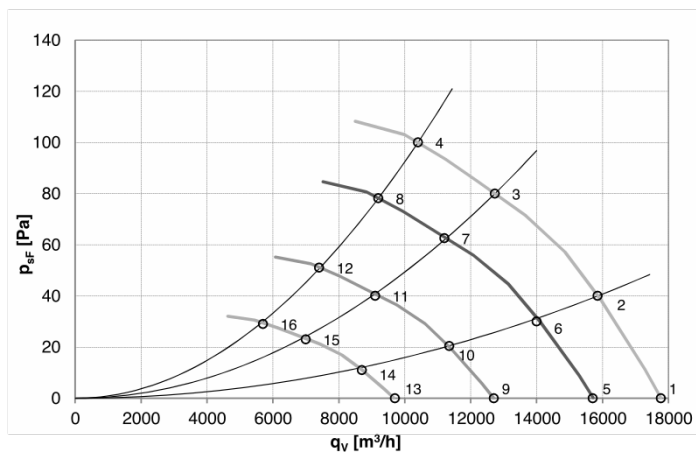
Acoustic power Lw

74.6 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)]	69.6	55.6	49.6	46.1	72.6	58.6	52.6	49.1	66.6	52.6	46.6	43.1				

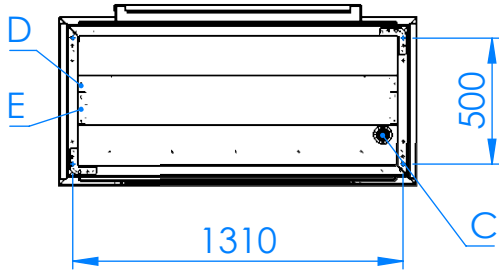
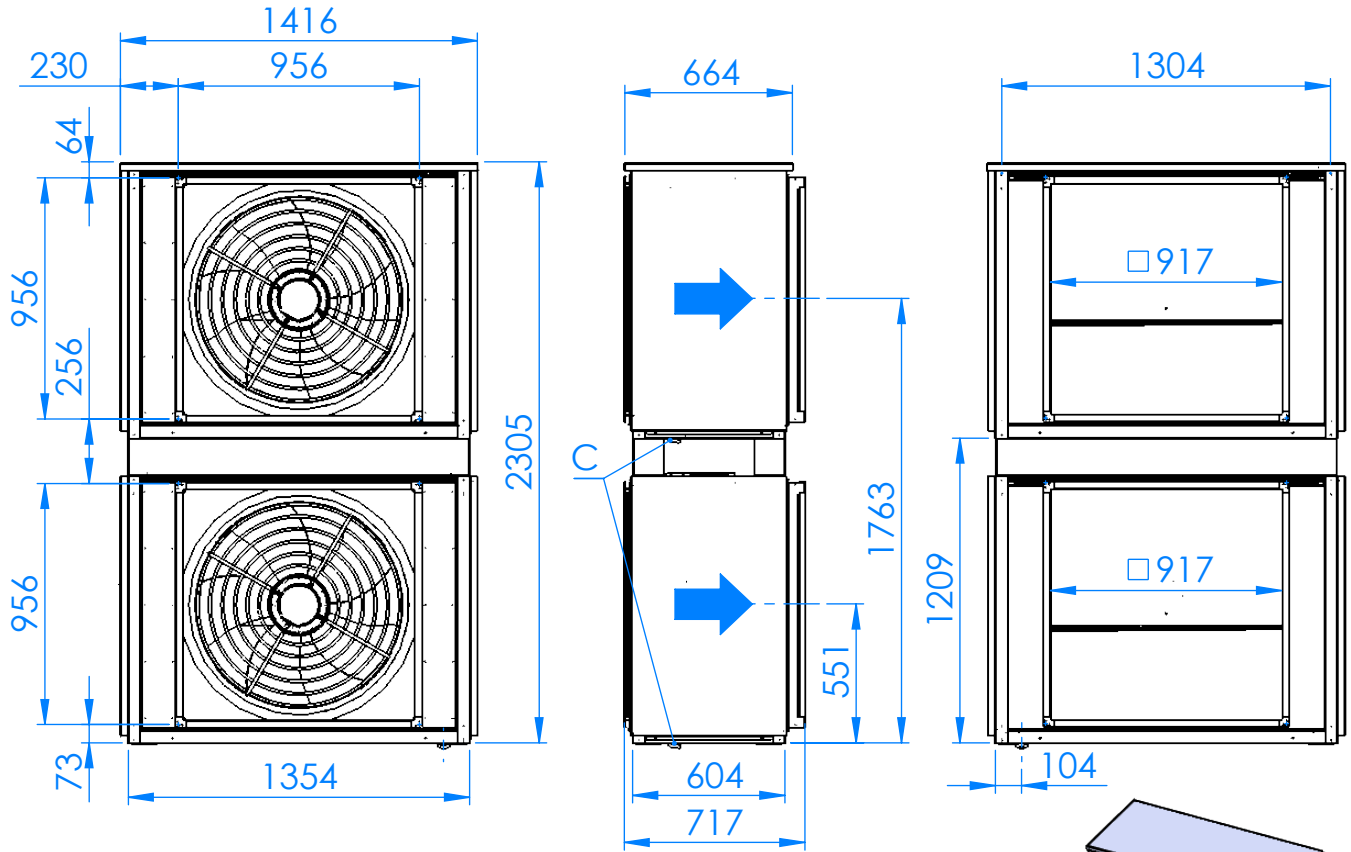
## EC Fan 800mm



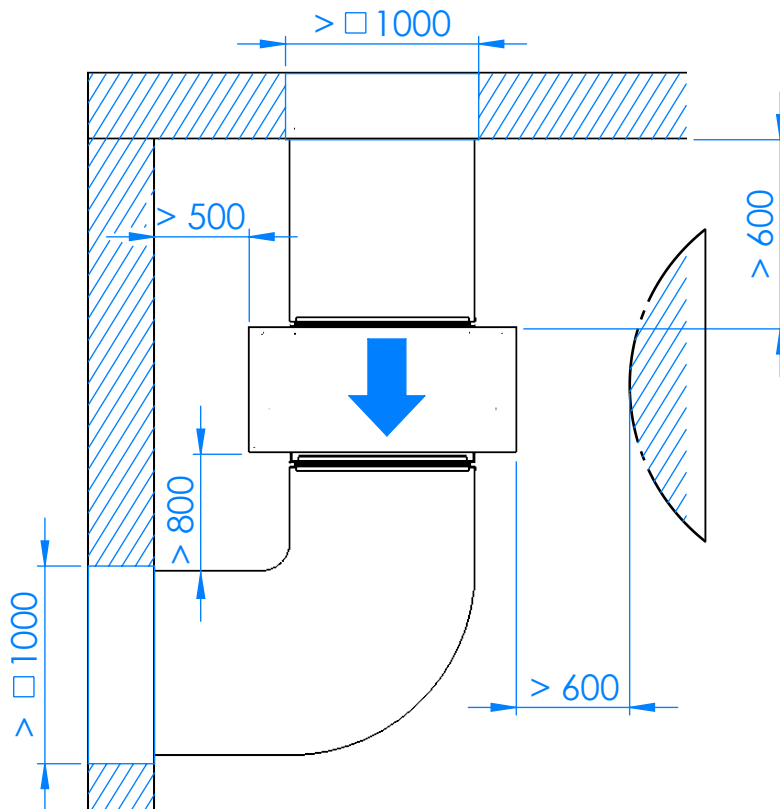
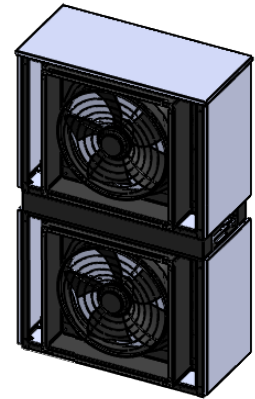
	U	f	n	qv	PstF	Pe	I	LwA out	Ta max
	[V]	[Hz]	[RPM]	[m³/h]	[Pa]	[W]	[A]	[dB (A)]	[°C]
1	400	50	735	17770	0	503	0,85	70	60
2	400	50	735	15850	40	612	1,02	66	60
3	400	50	735	12730	80	735	1,18	65	60
4	400	50	735	10400	100	802	1,36	68	60
5	400	50	650	15700	0	348	0,68	67	60
6	400	50	650	14000	30	421	0,80	63	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

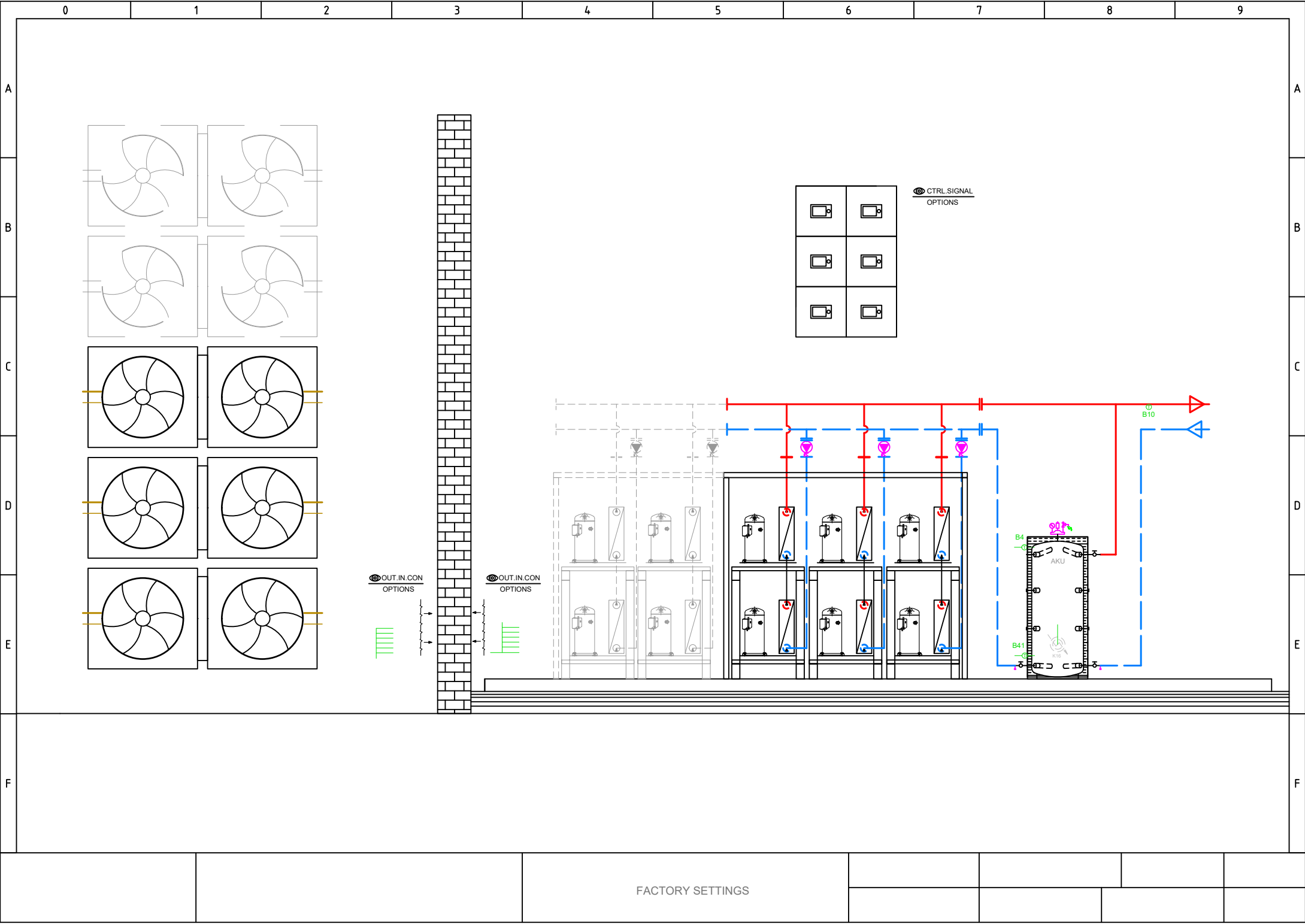


WAMAK AW 300 EVI HeavyDuty 2L3



D - FRIGO GAS  
 E - FRIGO LIQUID  
 C - CONDENS






CTRL SIGNAL  
OPTIONS

OUT.IN.CON  
OPTIONS

OUT.IN.CON  
OPTIONS

B4

B41

B10

AKU

K18

FACTORY SETTINGS

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

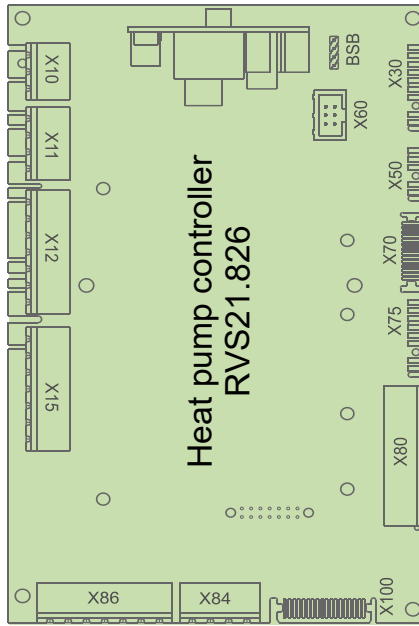
- L Phase 230V
- K1 Compressor stage 1 K1
- Y22 Process revers valve Y22

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

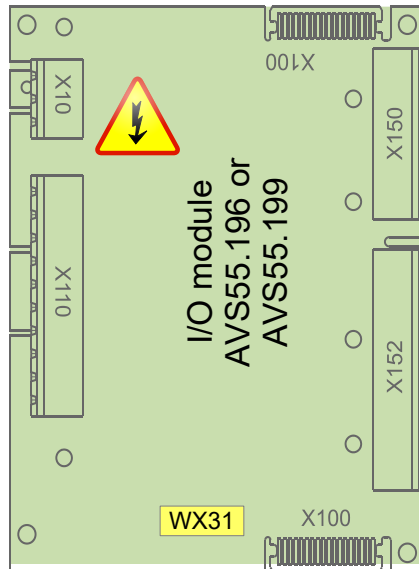
- B71 HP return sensor B71
- B9 Outside sensor B9

Main power supply 230V / 50 Hz  
Ground  
Neutral conductor

K10 Alarm output K10

V81 EEV evaporator V81

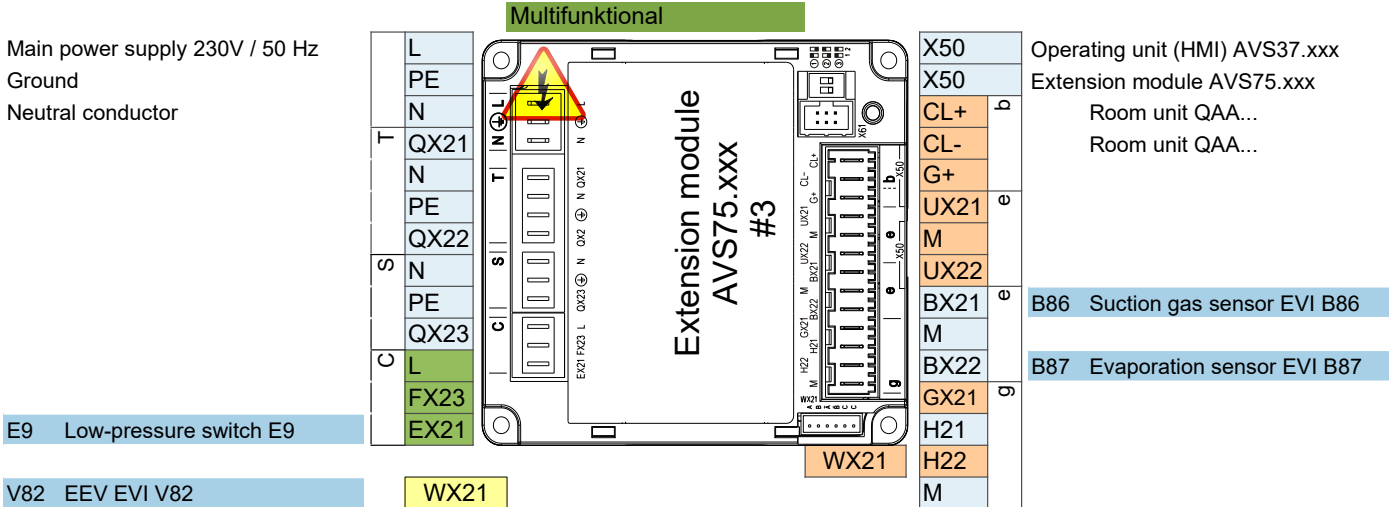
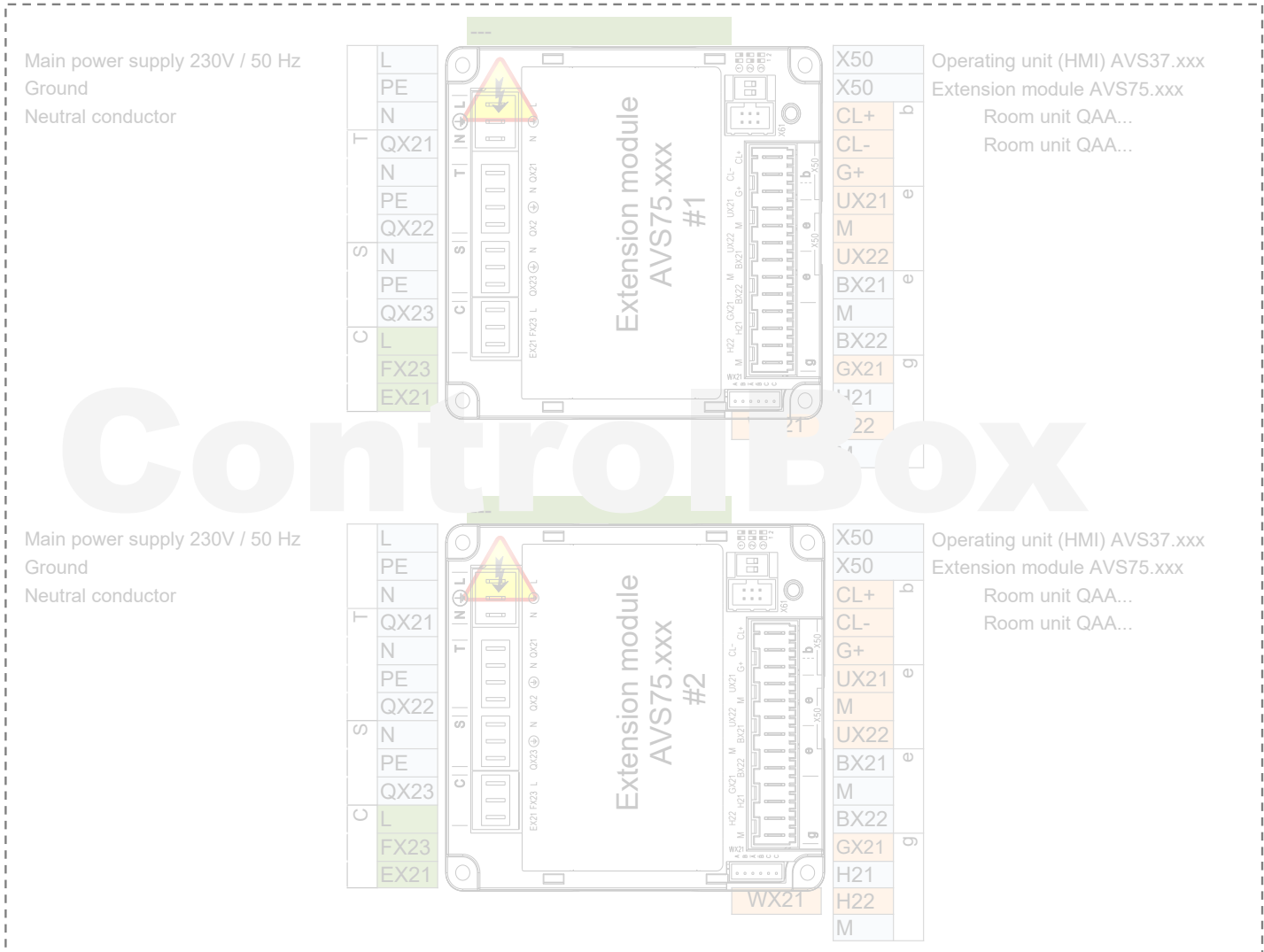
X10	1	L
X10	1	PE
X10	1	N
X110	1	QX31
X110	1	QX32
X110	1	N
X110	1	QX33
X110	1	N
X110	1	ZX34
X110	1	N
X115	1	QX35
X115	1	QX35i
X115	1	N

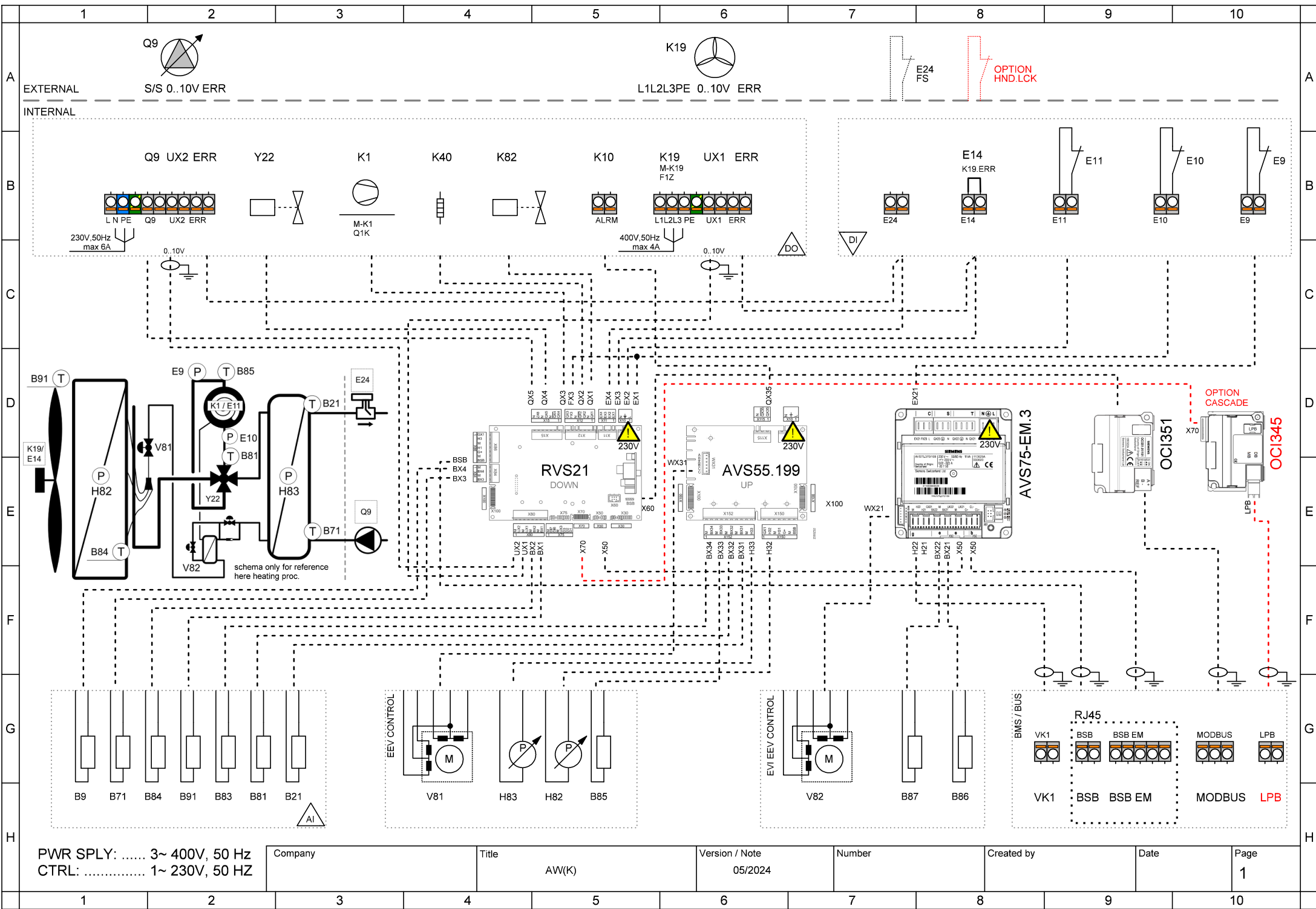


BSB
M
G+
H31
M
H32
GX1
H33
M
BX31
M
BX32
M
BX33
M
BX34
M

- 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

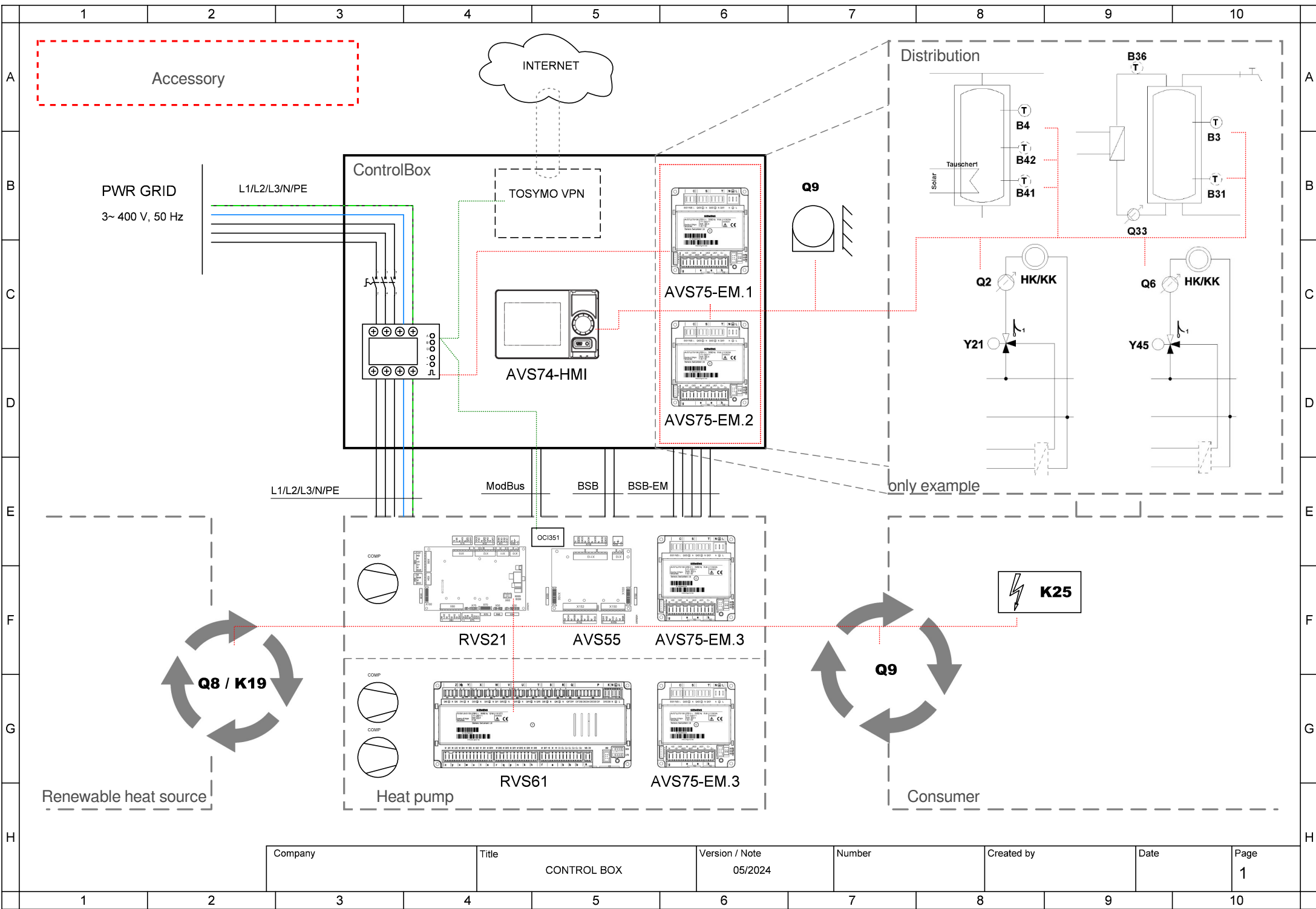
- AVS75.390
- AVS75.391
- AVS75.370



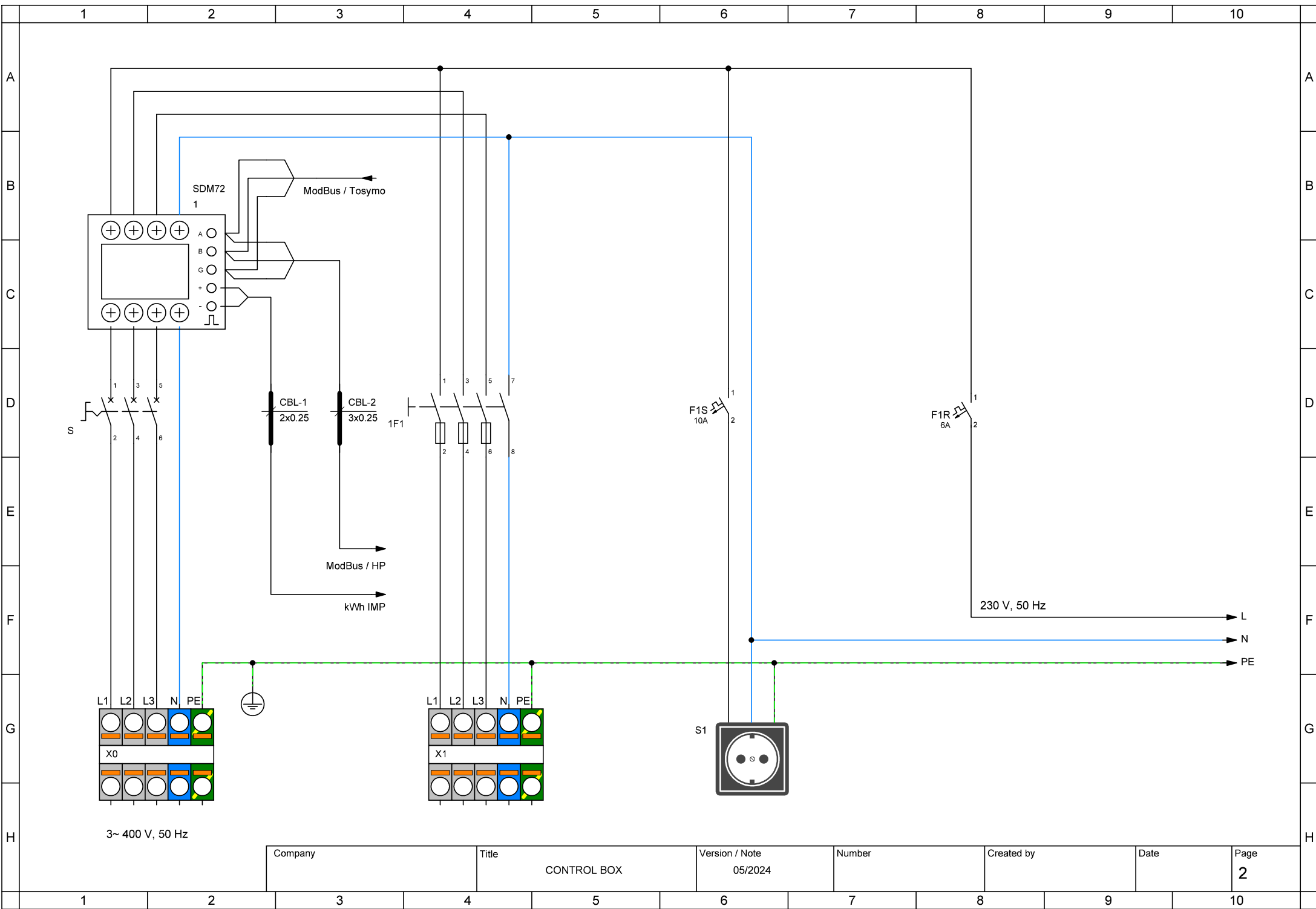


PWR SPLY: ..... 3~ 400V, 50 Hz  
 CTRL: ..... 1~ 230V, 50 HZ

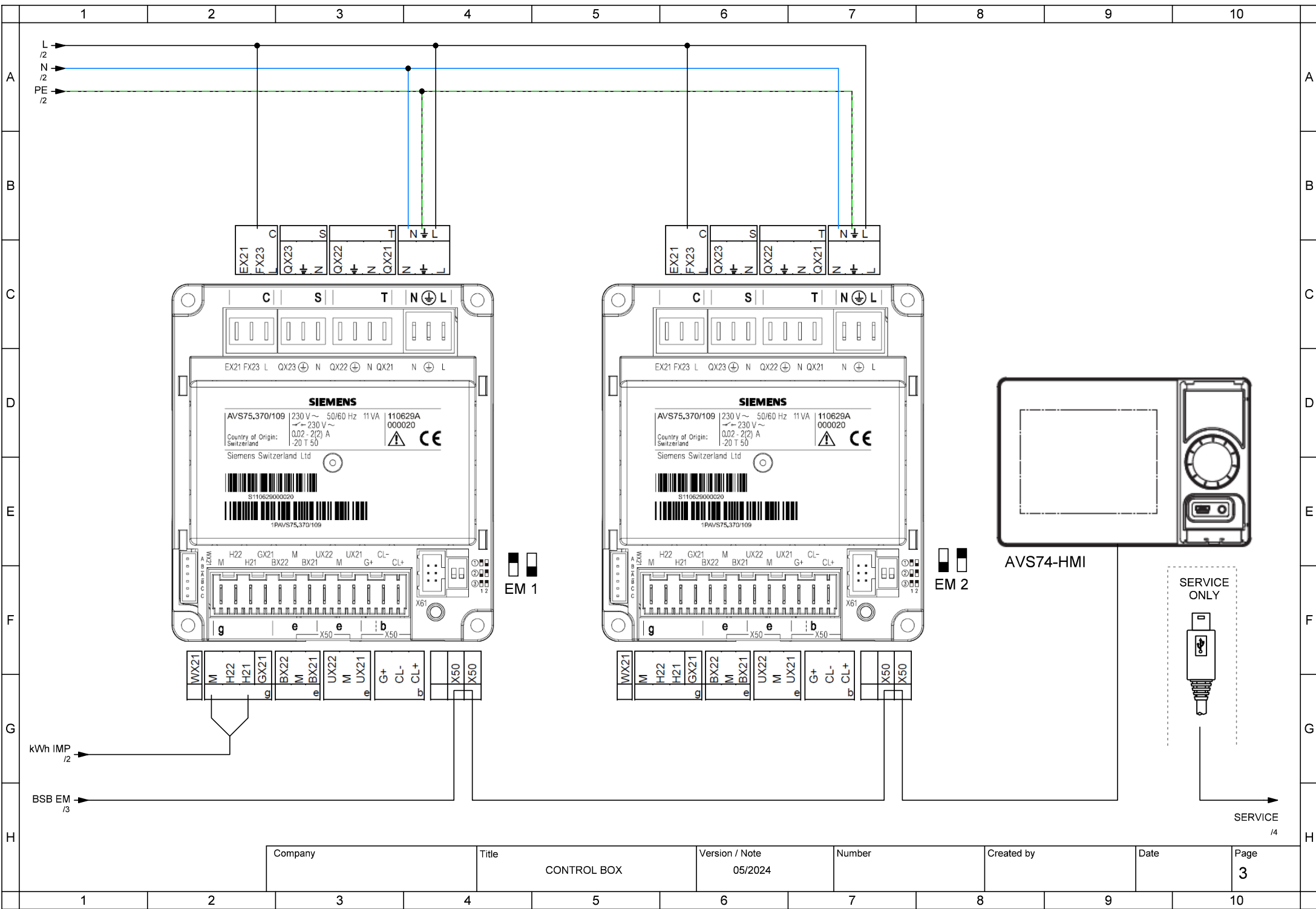
Company	Title	Version / Note	Number	Created by	Date	Page
	AW(K)	05/2024				1



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

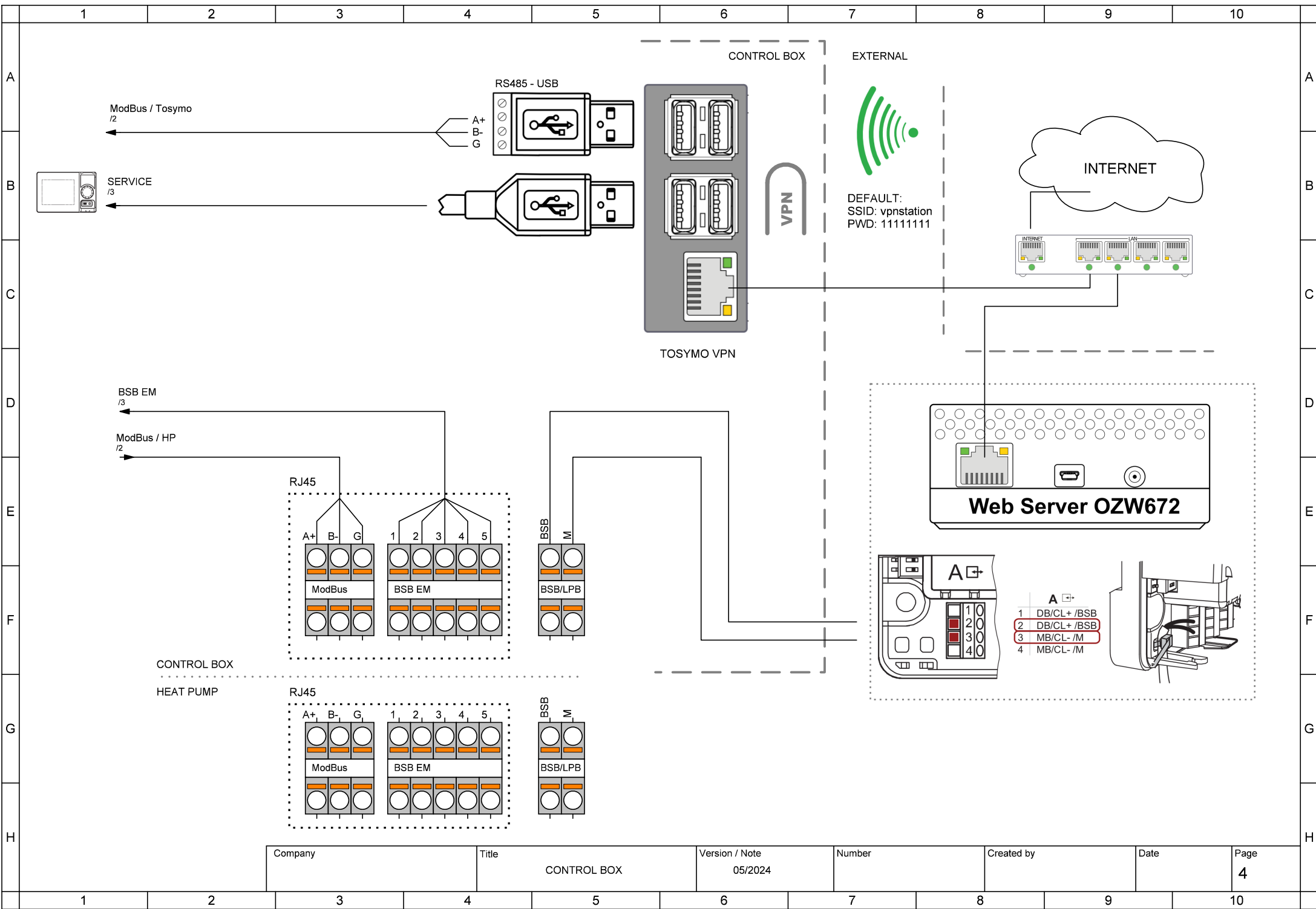


Company	Title	Version / Note	Number	Created by	Date	Page
	CONTROL BOX	05/2024				2



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

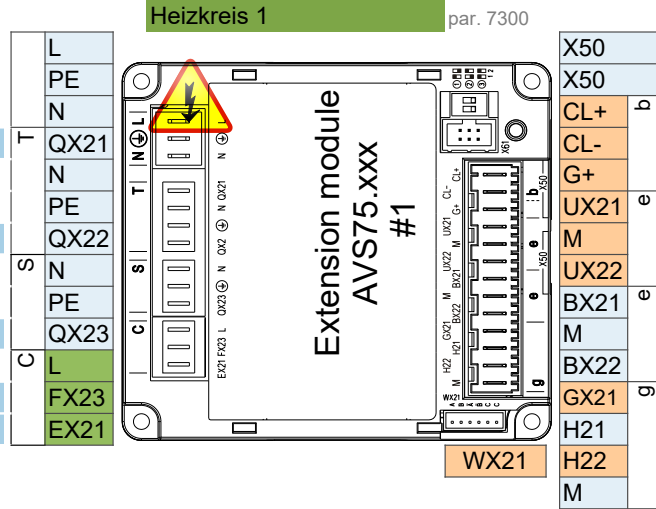




Company	Title	Version / Note	Number	Created by	Date	Page
	CONTROL BOX	05/2024				4

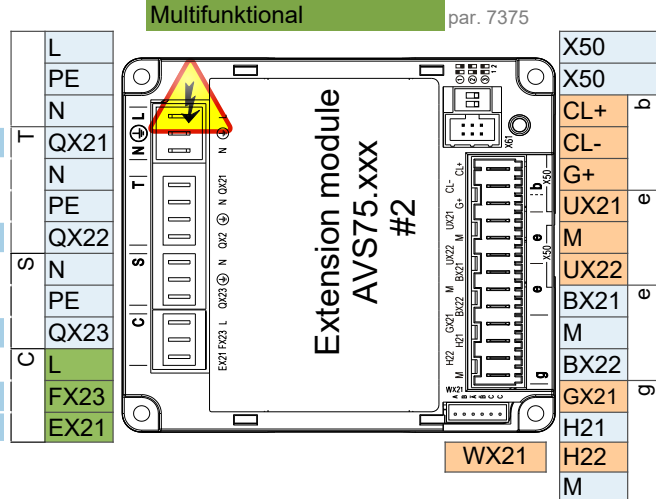
- AVS75.390
- AVS75.391
- AVS75.370

- AVS75.370**  
 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



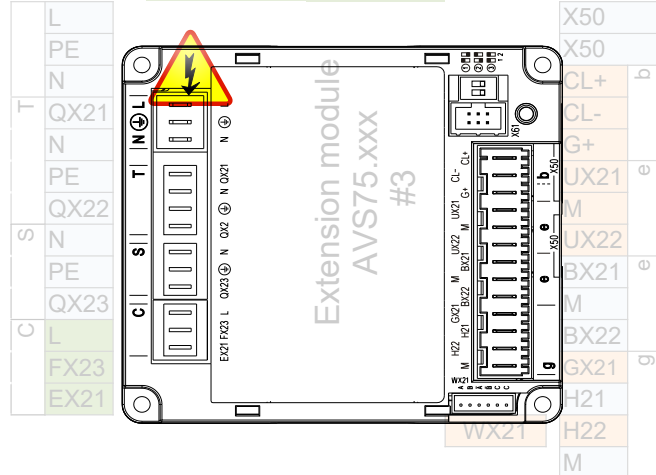
- Extension module AVS75.xxx  
 Room unit QAA...  
 Room unit QAA...  
  
**B1** Flow sensor 1  
  
 Pulse count

- 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

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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

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2 wire shielded cable 2 x 0.5 mm<sup>2</sup> - Setpoint = 45°C (editable by param. 1859)

Connection terminal - see wiring diagram

### 3 Analog 0..10V flow temperature setpoint control

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

Connection terminal - see wiring diagram

### 4 ModBus RTU communication command

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3 wire shielded cable min. 3 x 0.25mm<sup>2</sup>

For ModBus mapping table contact technical support

### 5 MQTT IoT communication protocol

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For more information contact technical support