



Heat pump



AW 40 EVI

WAMAK AW 40 EVI

Product description

Split heat pump for heating, cooling and domestic hot water in split design with outdoor and indoor unit. The silent Scroll compressor is located in the indoor unit and, in contrast, the heat exchanger and fan are located outside the building. The split design will allow installation in more challenging conditions during renovations where the energy source is located further away from the utility room.

Use for multi-family dwellings, suburban mixed-use buildings or commercial operations. The Urban range is based on a robust construction quality steel for all parts. High quality, long proven heat pump circuit components extend the life of the heat pump.

The primary source is the heat energy from the ambient air, which is blown by a silent fan in the shape of an owl's wing through a heat exchanger made of copper and aluminium.

The EVI (Enhanced Vapour Injection) technology allows the heat pump to achieve higher header flow temperatures even at lower source temperatures. EVI also has a positive impact on the compressor lifespan and overall system stability because the discharge gas temperature from the compressor is lower.

The APS (Active Process Subcooling) system simultaneously increases the stability and efficiency of operation by additional utilisation of the liquid refrigerant temperature after it has condensed.

Split system (compressor indoors)

Product features

- Scroll compressor
- EVI technology
- Asymmetric plate heat exchanger
- Active cooling
- Enhanced defrosting with APS system
- Heated drip tray - (with accessory)
- Phase and rotation control
- High pressure sensor - analogue
- Flow switch consumer - on/off - (with accessory)
- Plate exchanger protection HG-BYPASS
- Mixed heating/cooling circuit control
- DHW switching control
- Outdoor temperature sensor
- Buffer temperature sensor
- Modbus connection - (with accessory)
- Sylomer pads under compressor unit
- Electronic expansion valve
- Large air heat exchanger with APS system
- Reversible defrosting
- Speed - controlled EC fan
- Compressor soft starter
- High pressure switch
- Low pressure sensor - analogue
- Flow sensor consumer - analogue - (with accessory)
- ECM speed circulator - condenser
- Direct heating/cooling circuit control
- DHW circulation control
- DHW temperature sensor
- Cascade control - (with accessory)
- Solid frame structure

Basic performance data - WAMAK AW 40 EVI

Heating - EN 14511		
Heating capacity [kW]	A7 / W35	42.8
	A2 / W35	36.2
	A-7 / W34	30.2
Electrical power input [kW]	A7 / W35	9.8
	A2 / W35	9.8
	A-7 / W34	9.5
Heating efficiency faktor [COP]	A7 / W35	4.37
	A2 / W35	3.71
	A-7 / W34	3.18
Seasonal space heating energy efficiency - SCOP EN 14825		
Average Climate / Low Temperature [35 °C]	SCOP	4.19
	η [%]	167.5
	Label	A+++
	Qhe [kWh]	70657.2
	Pdesignh [kW]	34.2
	Tbivalent [°C]	-7
Cooling		
Cooling capacity - [kW]	A35 / W23-18	42.7
	A25 / W23-18	44.9
	A35 / W12-7	31.4
	A25 / W12-7	31.4
Seasonal space cooling energy efficiency - SEER EN 14825		
[W 23 / 18 °C]	SEER	4.54
	Qce [kWh]	18840.0
	η_c [%]	181.5
Sound EN 12102		
Acoustic power - Lw	dB(A)	62
Acoustic pressure - Lp	1 m dB(A)	54
	5 m dB(A)	40
	10 m dB(A)	34
Mechanical and operational information		
Compressor type (3~ 400/50)	SCROLL / 1 /	On/Off
Refrigerant	R410A (GWP - 2088)	8.4 kg
Operating limit temperatures heating - (min / max) [°C]		25 / 65
Operating limit temperatures source - (min / max) [°C]		-22 / 40
Weight		260 kg

Main technical data - WAMAK AW 40 EVI

Enclosure type		VN800H		Heat energy rejection side data		
Basic dimensions	Height [mm]	1270		Operating limit temperatures heating	MAX [°C]	65
	Width [mm]	850			MIN [°C]	25
	Length [mm]	750		for more see operating limits diagram		
Weight [kg]	260		Condenser	Port size	2 "	
Colour	Gray			Type	BPHE	
Enclosure IP Class	IP20			Count	1	
Refrigeration cycle				Material	AISI 316	
Compressor	Type	Scroll		Maximal operating pressure - refrigerant [bar]		50
	Number of stages	1		Maximal operating pressure - Water [bar]		3
	On/Off			Testing pressure [bar]		70
	Power factor Cosφ	0.59		Heat transfer medium		Water
	Winding resistance	0.83 Ohm		Volume flow - Water [m3/h]		7.41
Refrigerant		R410A		Internal pressure drop - Water [kPa]		15
	Volme	8.4 kg		ECM speed circulator - condenser		MAGNA 1 32-120
	GWP	2088		Temperature difference	@ 35°C (nom)	5 K
	Safety class	A1			@ 55°C	8 K
Refrigeration oil type	POE RL32-3MAF			@ 65°C	10 K	
	Oil volume	3.38 L		Renewable energy extraction side data		
Maximal pressure - refrigerant [bar]		50		Operating limit temperatures source	MIN [°C]	-22
	PED class	2			MAX [°C]	40
EVI - vapour injection with economizer			for more see operating limits diagram			
APS System of liquid subcooling			Evaporator	Port size	5/8" - 1.1/8" "	
Reversible operation (cooling)				Type	Cu-coil /Al-fin	
Reverse defrosting with hot gas				Count	1	
Plate exchanger protection HG-BYPASS				Material	Cu/Al	
Electrical connection data			Maximal operating pressure - refrigerant [bar]		29	
Line voltage [#~ V/Hz]	3~ 400/50		Heat transfer medium		Air	
Current	nominal [A]	21.79		Volume flow - Air [m3/h]		13200
	maximal [A]	33.00		Internal pressure drop - Air [kPa]		0.024
	starting [A]	50.47		Temperature difference - Air		7 K
Softstart	MCD201		Possible outdoor units		1 x VOV-900	
Main safety	C40				1 x VOII-1200-2LOW	
Control System					1 x VOII-1200-2HIGH	
Main controller	SIEMENS	RVS 21 AVS 55.199				1 x VOII-1200-2LOW-DUCT
Extension module	AVS75.3xx	AVS75.3xx	AVS75.372			1 x VOII-1200-2HIGH-DUCT
		LPB OCI346	Modbus OCI352			
Online connection		Web server OZW672	ToSyMo			
Superheat controller	SEC61				Split System (compressor indoors)	
*** with accessory			Liquid line dimension (up to 8 meters IU/OU)		5/8"	
			Suction line dimension (up to 8 meters IU/OU)		1.1/8"	
			Surcharge of refrigerant over 8 meter distance IU/OU		0.23 kg/m	
			air - water SPLIT heat pumps indoor units are delivered without full refrigerant charge only with residual overpressure from testing			

WAMAK AW 40 EVI

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

Model	AW 40 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	34.2	kW	Seasonal space heating energy efficiency	η_s	167.5	%
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	30.2	kW	Tj = -7 °C	COPd	3.18	-
Tj = +2 °C	Pdh	36.1	kW	Tj = +2 °C	COPd	4.1	-
Tj = +7 °C	Pdh	42.8	kW	Tj = +7 °C	COPd	5.1	-
Tj = +12 °C	Pdh	50.6	kW	Tj = +12 °C	COPd	6.4	-
Tj = bivalent temperature	Pdh	29.7	kW	Tj = bivalent temperature	COPd	3.1	-
Tj = operation limit temperature	Pdh	21.5	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	15.2	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				13200	m ³ /h
Sound power level						---	m ³ /h
indoors	Lwa	62	dB				
outdoors	Lwa	67	dB				
Annual energy consumption	Q _{HE}	70657.2	kWh				

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Model	AW 40 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	35.9	kW	Seasonal space heating energy efficiency	η_s	130.3	%
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	31.4	kW	Tj = -7 °C	COPd	2.19	-
Tj = +2 °C	Pdh	36.4	kW	Tj = +2 °C	COPd	3.2	-
Tj = +7 °C	Pdh	42.8	kW	Tj = +7 °C	COPd	4.3	-
Tj = +12 °C	Pdh	50.5	kW	Tj = +12 °C	COPd	5.7	-
Tj = bivalent temperature	Pdh	31.1	kW	Tj = bivalent temperature	COPd	2.0	-
Tj = operation limit temperature	Pdh	23.3	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	15.2	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	-	13200	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	67	dB				
Annual energy consumption	Q _{HE}	74169.4	kWh				

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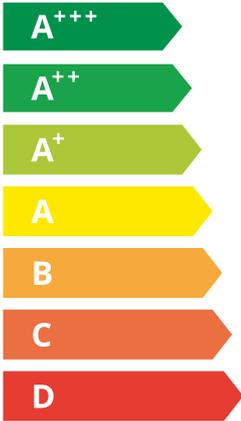
WAMAK

AW 40 EVI



55 °C

35 °C



62 dB

67 dB

■ 38	■ 35
■ 36	■ 35
■ 36	■ 33
kW	kW

2019

811/2013

AW 40 EVI

ErP Data

	55 °C	35 °C
Energy class	A++	A+++
η [%]	130.3	167.5
P_{rated} [kW]	36	35
Q_{HE} [kWh/y]	74170	70658
SCOP [-]	3.26	4.19
$T_{bivalent}$ [°C]	-7	-7

CONTROLLER



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

Heating performance data

Version: v202223.006-AW

Average Climate / Low Temperature [35°C]

ZHI40K1P-TFD_R410A_1_AW

Operating conditions		Qh	P	COP
1	A7 / W30-35	42.8	9.8	4.37
2	A2 / W35	36.2	9.8	3.71
3	A-22 / W35	21.5	9.7	2.22
A	A-7 / W34	30.2	9.5	3.18
B	A2 / W30	36.1	8.8	4.10
C	A7 / W27	42.8	8.3	5.13
D	A12 / W24	50.6	7.9	6.40
E	A-10 / W35	29.7	9.7	3.05
F	A-7 / W34	30.2	9.5	3.18

SCOP DATA EN 14825:2018	
Average Climate / Low Temperature [35°C]	
SCOPon	4.27
SCOPnet	4.31
SCOP	4.19
η [%]	167.47
Label	A+++
Qh [kWh]	70657.20
Pdesignh [kW]	34.2
Tbivalent [°C]	-7.00

Average Climate / Medium Temperature [55°C]

Operating conditions		Qh	P	COP
1	A7 / W47-55	43.5	15.5	2.81
2	A2 / W55	37.3	15.4	2.42
3	A-22 / W55	23.3	14.3	1.51
A	A-7 / W52	31.4	14.3	2.19
B	A2 / W42	36.4	11.3	3.20
C	A7 / W36	42.8	10.0	4.28
D	A12 / W30	50.5	8.9	5.67
E	A-10 / W55	31.1	15.4	2.02
F	A-7 / W55	31.7	15.4	2.06

SCOP DATA EN 14825:2018	
Average Climate / Medium Temperature [55°C]	
SCOPon	3.31
SCOPnet	3.33
SCOP	3.26
η [%]	130.31
Label	A++
Qh [kWh]	74169.40
Pdesignh [kW]	35.9
Tbivalent [°C]	-7.00

Cooling performance data

Low temperature cooling W 12 / 7°C

Operating conditions		Qc	P	EER
A	A35 / W12-7	31.4	11.7	2.70
B	A30 / W12-7	32.4	10.4	3.11
C	A25 / W12-7	33.3	9.4	3.54
D	A20 / W12-7	34.1	8.5	4.01

SEER DATA EN 14825:2018 [W 12 / 7°C]	
SEERon	3.46
SEER	3.39
Qc [kWh]	18840.00
η [%]	135.57

Radiant cooling W 23 / 18°C

Operating conditions		Qc	P	EER
A	A35 / W23-18	42.7	11.7	3.66
B	A30 / W23-18	43.8	9.8	4.20
C	A25 / W23-18	44.9	8.8	4.77
D	A20 / W23-18	45.8	8.0	5.39

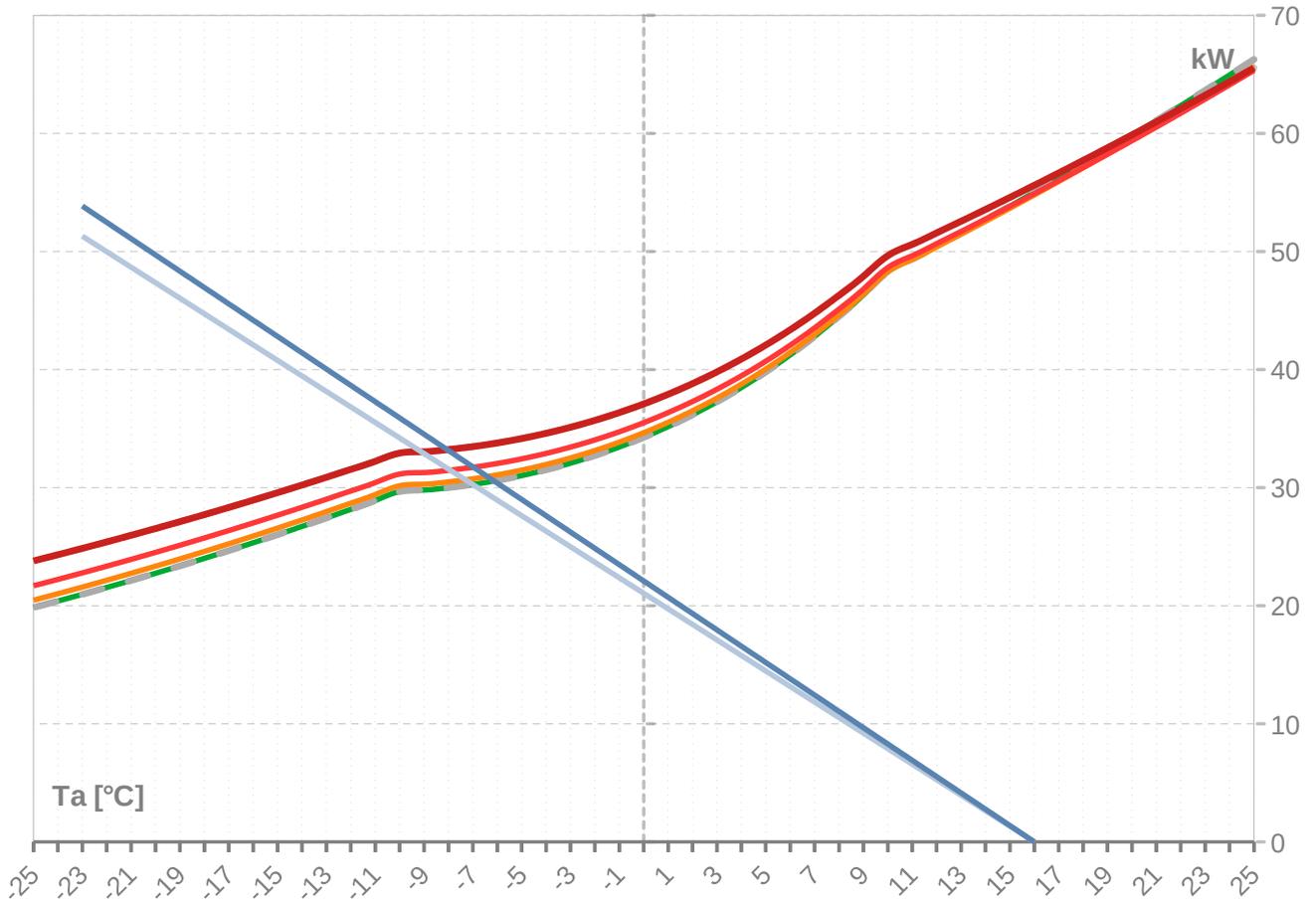
SEER DATA EN 14825:2018 [W 23 / 18°C]	
SEERon	4.66
SEER	4.54
Qc [kWh]	18840.00
η [%]	181.54

WAMAK AW 40 EVI

ZHI40K1P-TFD_R410A_1_AW

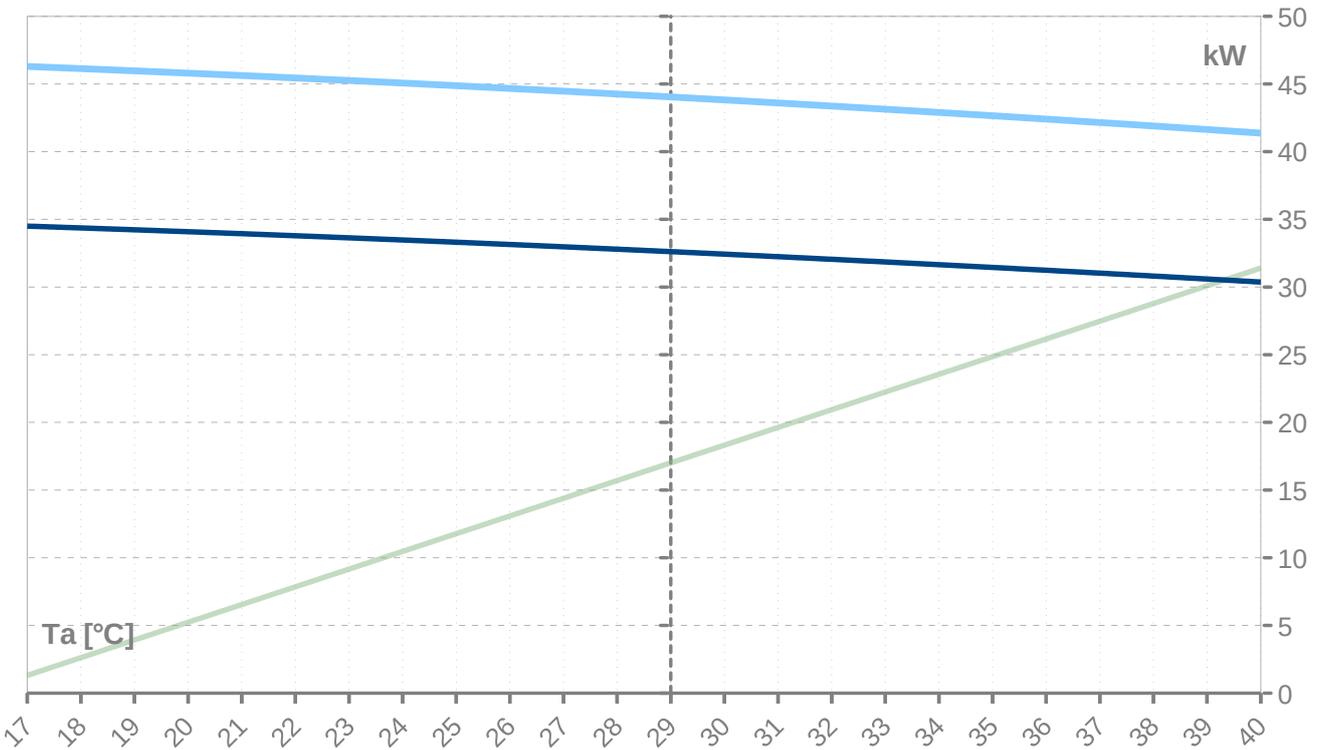
Performance lines - heating

- 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	56.2	56.2		9.9	9.9		5.67	21.7	21.7	
24	56.2	56.2		9.9	9.9		5.67	21.7	21.7	
23	56.2	56.2		9.9	9.9		5.67	21.7	21.7	
22	56.2	56.2		9.9	9.9		5.67	21.7	21.7	
21	56.2	56.2		9.9	9.9		5.67	21.7	21.7	
20	56.2	56.2		9.9	9.9		5.67	21.7	21.7	
19	56.2	56.2		9.9	9.9		5.67	21.7	21.7	
18	56.2	56.2		9.9	9.9		5.67	21.7	21.7	
17	56.2	56.2		9.9	9.9		5.67	21.7	21.7	
16	55.0	55.0	55.0	9.9	9.9	9.9	5.55	21.7	21.7	21.7
15	53.8	53.8	53.8	9.9	9.9	9.9	5.44	21.7	21.7	21.7
14	52.7	52.7	52.7	9.9	9.9	9.9	5.33	21.8	21.8	21.8
13	51.6	51.6	51.6	9.9	9.9	9.9	5.22	21.8	21.8	21.8
12	50.5	50.5	50.5	9.9	9.9	9.9	5.11	21.8	21.8	21.8
11	49.4	49.4	49.4	9.9	9.9	9.9	5.01	21.8	21.8	21.8
10	48.3	48.3	48.3	9.9	9.9	9.9	4.90	21.8	21.8	21.8
9	46.3	46.3	46.3	9.8	9.8	9.8	4.71	21.8	21.8	21.8
8	44.5	44.5	44.5	9.8	9.8	9.8	4.53	21.8	21.8	21.8
7	42.8	42.8	42.8	9.8	9.8	9.8	4.37	21.8	21.8	21.8
6	41.2	41.2	41.2	9.8	9.8	9.8	4.21	21.8	21.8	21.8
5	39.8	39.8	39.8	9.8	9.8	9.8	4.07	21.8	21.8	21.8
4	38.5	38.5	38.5	9.8	9.8	9.8	3.94	21.8	21.8	21.8
3	37.3	37.3	37.3	9.8	9.8	9.8	3.82	21.8	21.8	21.8
2	36.2	36.2	36.2	9.8	9.8	9.8	3.71	21.8	21.8	21.8
1	35.2	35.2	35.2	9.7	9.7	9.7	3.61	21.8	21.8	21.8
0	34.3	34.3	34.3	9.7	9.7	9.7	3.52	21.8	21.8	21.8
-1	33.4	33.4	33.4	9.7	9.7	9.7	3.44	21.8	21.8	21.8
-2	32.7	32.7	32.7	9.7	9.7	9.7	3.36	21.8	21.8	21.8
-3	32.1	32.1	32.1	9.7	9.7	9.7	3.30	21.8	21.8	21.8
-4	31.5	31.5	31.5	9.7	9.7	9.7	3.24	21.8	21.8	21.8
-5	31.0	31.0	31.0	9.7	9.7	9.7	3.19	21.7	21.7	21.7
-6	30.6	30.6	30.6	9.7	9.7	9.7	3.15	21.7	21.7	21.7
-7	30.3	30.3	30.3	9.7	9.7	9.7	3.12	21.7	21.7	21.7
-8	30.0	30.0	30.0	9.7	9.7	9.7	3.09	21.7	21.7	21.7
-9	29.8	29.8	29.8	9.7	9.7	9.7	3.07	21.7	21.7	21.7
-10	29.7	29.7	29.7	9.7	9.7	9.7	3.05	21.7	21.7	21.7
-11	28.9	28.9	28.9	9.7	9.7	9.7	2.98	21.7	21.7	21.7
-12	28.2	28.2	28.2	9.7	9.7	9.7	2.90	21.7	21.7	21.7
-13	27.4	27.4	27.4	9.7	9.7	9.7	2.83	21.7	21.7	21.7
-14	26.7	26.7	26.7	9.7	9.7	9.7	2.75	21.7	21.7	21.7
-15	26.0	26.0	26.0	9.7	9.7	9.7	2.68	21.6	21.6	21.6
-16	25.3	25.3	25.3	9.7	9.7	9.7	2.61	21.6	21.6	21.6
-17	24.7	24.7	24.7	9.7	9.7	9.7	2.54	21.6	21.6	21.6
-18	24.0	24.0	24.0	9.7	9.7	9.7	2.48	21.6	21.6	21.6
-19	23.4	23.4	23.4	9.7	9.7	9.7	2.41	21.6	21.6	21.6
-20	22.7	22.7	22.7	9.7	9.7	9.7	2.35	21.5	21.5	21.5
-21	22.1	22.1	22.1	9.7	9.7	9.7	2.28	21.5	21.5	21.5
-22	21.5	21.5	21.5	9.7	9.7	9.7	2.22	21.5	21.5	21.5
-23	21.0	21.0	21.0	9.7	9.7	9.7	2.16	21.4	21.4	21.4
-24	20.4	20.4	20.4	9.7	9.7	9.7	2.10	21.4	21.4	21.4
-25	19.8	19.8	19.8	9.7	9.7	9.7	2.05	21.4	21.4	21.4

* attention: operating limits not reflected in performance table

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	65.7	65.7	65.7	12.4	12.4	12.4	5.28	24.0	24.0	24.0
24	64.4	64.4	64.4	12.4	12.4	12.4	5.18	24.0	24.0	24.0
23	63.1	63.1	63.1	12.4	12.4	12.4	5.09	24.0	24.0	24.0
22	61.9	61.9	61.9	12.4	12.4	12.4	4.99	24.0	24.0	24.0
21	60.7	60.7	60.7	12.4	12.4	12.4	4.90	24.0	24.0	24.0
20	59.5	59.5	59.5	12.4	12.4	12.4	4.80	24.0	24.0	24.0
19	58.3	58.3	58.3	12.4	12.4	12.4	4.71	24.0	24.0	24.0
18	57.1	57.1	57.1	12.3	12.3	12.3	4.62	24.0	24.0	24.0
17	55.9	55.9	55.9	12.3	12.3	12.3	4.53	23.9	23.9	23.9
16	54.8	54.8	54.8	12.3	12.3	12.3	4.45	23.9	23.9	23.9
15	53.7	53.7	53.7	12.3	12.3	12.3	4.36	23.9	23.9	23.9
14	52.6	52.6	52.6	12.3	12.3	12.3	4.27	23.9	23.9	23.9
13	51.5	51.5	51.5	12.3	12.3	12.3	4.19	23.9	23.9	23.9
12	50.4	50.4	50.4	12.3	12.3	12.3	4.10	23.9	23.9	23.9
11	49.3	49.3	49.3	12.3	12.3	12.3	4.02	23.9	23.9	23.9
10	48.3	48.3	48.3	12.3	12.3	12.3	3.94	23.9	23.9	23.9
9	46.4	46.4	46.4	12.2	12.2	12.2	3.79	23.8	23.8	23.8
8	44.6	44.6	44.6	12.2	12.2	12.2	3.65	23.8	23.8	23.8
7	43.0	43.0	43.0	12.2	12.2	12.2	3.52	23.8	23.8	23.8
6	41.4	41.4	41.4	12.2	12.2	12.2	3.40	23.8	23.8	23.8
5	40.0	40.0	40.0	12.2	12.2	12.2	3.29	23.7	23.7	23.7
4	38.8	38.8	38.8	12.2	12.2	12.2	3.19	23.7	23.7	23.7
3	37.6	37.6	37.6	12.2	12.2	12.2	3.09	23.7	23.7	23.7
2	36.5	36.5	36.5	12.1	12.1	12.1	3.00	23.7	23.7	23.7
1	35.5	35.5	35.5	12.1	12.1	12.1	2.93	23.7	23.7	23.7
0	34.6	34.6	34.6	12.1	12.1	12.1	2.85	23.6	23.6	23.6
-1	33.8	33.8	33.8	12.1	12.1	12.1	2.79	23.6	23.6	23.6
-2	33.1	33.1	33.1	12.1	12.1	12.1	2.73	23.6	23.6	23.6
-3	32.5	32.5	32.5	12.1	12.1	12.1	2.68	23.6	23.6	23.6
-4	32.0	32.0	32.0	12.1	12.1	12.1	2.64	23.6	23.6	23.6
-5	31.5	31.5	31.5	12.1	12.1	12.1	2.60	23.6	23.6	23.6
-6	31.1	31.1	31.1	12.1	12.1	12.1	2.57	23.5	23.5	23.5
-7	30.7	30.7	30.7	12.1	12.1	12.1	2.54	23.5	23.5	23.5
-8	30.5	30.5	30.5	12.1	12.1	12.1	2.52	23.5	23.5	23.5
-9	30.3	30.3	30.3	12.1	12.1	12.1	2.50	23.5	23.5	23.5
-10	30.2	30.2	30.2	12.1	12.1	12.1	2.49	23.5	23.5	23.5
-11	29.4	29.4	29.4	12.1	12.1	12.1	2.43	23.5	23.5	23.5
-12	28.7	28.7	28.7	12.1	12.1	12.1	2.37	23.5	23.5	23.5
-13	28.0	28.0	28.0	12.1	12.1	12.1	2.31	23.5	23.5	23.5
-14	27.3	27.3	27.3	12.1	12.1	12.1	2.25	23.4	23.4	23.4
-15	26.6	26.6	26.6	12.1	12.1	12.1	2.20	23.4	23.4	23.4
-16	25.9	25.9	25.9	12.1	12.1	12.1	2.14	23.4	23.4	23.4
-17	25.2	25.2	25.2	12.1	12.1	12.1	2.09	23.3	23.3	23.3
-18	24.6	24.6	24.6	12.1	12.1	12.1	2.03	23.3	23.3	23.3
-19	24.0	24.0	24.0	12.1	12.1	12.1	1.98	23.3	23.3	23.3
-20	23.3	23.3	23.3	12.1	12.1	12.1	1.93	23.3	23.3	23.3
-21	22.7	22.7	22.7	12.1	12.1	12.1	1.88	23.2	23.2	23.2
-22	22.2	22.2	22.2	12.1	12.1	12.1	1.83	23.2	23.2	23.2
-23	21.6	21.6	21.6	12.1	12.1	12.1	1.78	23.2	23.2	23.2
-24	21.0	21.0	21.0	12.1	12.1	12.1	1.73	23.1	23.1	23.1
-25	20.5	20.5	20.5	12.1	12.1	12.1	1.69	23.1	23.1	23.1

* 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	65.3	65.3	65.3	15.8	15.8	15.8	4.14	27.3	27.3	27.3
24	64.1	64.1	64.1	15.7	15.7	15.7	4.07	27.3	27.3	27.3
23	62.9	62.9	62.9	15.7	15.7	15.7	4.00	27.2	27.2	27.2
22	61.7	61.7	61.7	15.7	15.7	15.7	3.93	27.2	27.2	27.2
21	60.5	60.5	60.5	15.7	15.7	15.7	3.86	27.2	27.2	27.2
20	59.4	59.4	59.4	15.7	15.7	15.7	3.79	27.2	27.2	27.2
19	58.2	58.2	58.2	15.7	15.7	15.7	3.72	27.2	27.2	27.2
18	57.1	57.1	57.1	15.7	15.7	15.7	3.65	27.1	27.1	27.1
17	56.0	56.0	56.0	15.6	15.6	15.6	3.58	27.1	27.1	27.1
16	54.9	54.9	54.9	15.6	15.6	15.6	3.51	27.1	27.1	27.1
15	53.8	53.8	53.8	15.6	15.6	15.6	3.45	27.1	27.1	27.1
14	52.7	52.7	52.7	15.6	15.6	15.6	3.38	27.1	27.1	27.1
13	51.7	51.7	51.7	15.6	15.6	15.6	3.32	27.1	27.1	27.1
12	50.7	50.7	50.7	15.6	15.6	15.6	3.25	27.0	27.0	27.0
11	49.6	49.6	49.6	15.6	15.6	15.6	3.19	27.0	27.0	27.0
10	48.6	48.6	48.6	15.6	15.6	15.6	3.13	27.0	27.0	27.0
9	46.8	46.8	46.8	15.5	15.5	15.5	3.01	27.0	27.0	27.0
8	45.1	45.1	45.1	15.5	15.5	15.5	2.91	26.9	26.9	26.9
7	43.5	43.5	43.5	15.5	15.5	15.5	2.81	26.9	26.9	26.9
6	42.1	42.1	42.1	15.5	15.5	15.5	2.72	26.9	26.9	26.9
5	40.7	40.7	40.7	15.5	15.5	15.5	2.63	26.9	26.9	26.9
4	39.5	39.5	39.5	15.5	15.5	15.5	2.55	26.9	26.9	26.9
3	38.3	38.3	38.3	15.4	15.4	15.4	2.48	26.8	26.8	26.8
2	37.3	37.3	37.3	15.4	15.4	15.4	2.42	26.8	26.8	26.8
1	36.3	36.3	36.3	15.4	15.4	15.4	2.36	26.8	26.8	26.8
0	35.5	35.5	35.5	15.4	15.4	15.4	2.30	26.8	26.8	26.8
-1	34.7	34.7	34.7	15.4	15.4	15.4	2.25	26.8	26.8	26.8
-2	34.0	34.0	34.0	15.4	15.4	15.4	2.21	26.8	26.8	26.8
-3	33.4	33.4	33.4	15.4	15.4	15.4	2.17	26.7	26.7	26.7
-4	32.9	32.9	32.9	15.4	15.4	15.4	2.13	26.7	26.7	26.7
-5	32.4	32.4	32.4	15.4	15.4	15.4	2.11	26.7	26.7	26.7
-6	32.0	32.0	32.0	15.4	15.4	15.4	2.08	26.7	26.7	26.7
-7	31.7	31.7	31.7	15.4	15.4	15.4	2.06	26.7	26.7	26.7
-8	31.5	31.5	31.5	15.4	15.4	15.4	2.04	26.7	26.7	26.7
-9	31.3	31.3	31.3	15.4	15.4	15.4	2.03	26.7	26.7	26.7
-10	31.1	31.1	31.1	15.4	15.4	15.4	2.02	26.7	26.7	26.7
-11	30.4	30.4	30.4	15.4	15.4	15.4	1.98	26.7	26.7	26.7
-12	29.7	29.7	29.7	15.4	15.4	15.4	1.93	26.7	26.7	26.7
-13	29.0	29.0	29.0	15.4	15.4	15.4	1.88	26.6	26.6	26.6
-14	28.3	28.3	28.3	15.4	15.4	15.4	1.84	26.6	26.6	26.6
-15	27.7	27.7	27.7	15.4	15.4	15.4	1.80	26.6	26.6	26.6
-16	27.0	27.0	27.0	15.4	15.4	15.4	1.75	26.6	26.6	26.6
-17	26.4	26.4	26.4	15.4	15.4	15.4	1.71	26.6	26.6	26.6
-18	25.7	25.7	25.7	15.4	15.4	15.4	1.67	26.6	26.6	26.6
-19	25.1	25.1	25.1	15.4	15.4	15.4	1.63	26.5	26.5	26.5
-20	24.5	24.5	24.5	15.4	15.4	15.4	1.59	26.5	26.5	26.5
-21	23.9	23.9	23.9	15.4	15.4	15.4	1.55	26.5	26.5	26.5
-22	23.3	23.3	23.3	15.4	15.4	15.4	1.51	26.5	26.5	26.5
-23	22.8	22.8	22.8	15.4	15.4	15.4	1.48	26.5	26.5	26.5
-24	22.2	22.2	22.2	15.4	15.4	15.4	1.44	26.4	26.4	26.4
-25	21.7	21.7	21.7	15.4	15.4	15.4	1.40	26.4	26.4	26.4

* 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	65.5	65.5	65.5	20.2	20.2	20.2	3.24	32.7	32.7	32.7
24	64.4	64.4	64.4	20.2	20.2	20.2	3.18	32.7	32.7	32.7
23	63.2	63.2	63.2	20.2	20.2	20.2	3.13	32.7	32.7	32.7
22	62.1	62.1	62.1	20.2	20.2	20.2	3.08	32.7	32.7	32.7
21	61.0	61.0	61.0	20.2	20.2	20.2	3.02	32.7	32.7	32.7
20	59.9	59.9	59.9	20.2	20.2	20.2	2.97	32.6	32.6	32.6
19	58.8	58.8	58.8	20.1	20.1	20.1	2.92	32.6	32.6	32.6
18	57.7	57.7	57.7	20.1	20.1	20.1	2.87	32.6	32.6	32.6
17	56.7	56.7	56.7	20.1	20.1	20.1	2.82	32.6	32.6	32.6
16	55.6	55.6	55.6	20.1	20.1	20.1	2.77	32.6	32.6	32.6
15	54.6	54.6	54.6	20.1	20.1	20.1	2.72	32.6	32.6	32.6
14	53.6	53.6	53.6	20.1	20.1	20.1	2.67	32.6	32.6	32.6
13	52.6	52.6	52.6	20.0	20.0	20.0	2.62	32.6	32.6	32.6
12	51.6	51.6	51.6	20.0	20.0	20.0	2.57	32.6	32.6	32.6
11	50.6	50.6	50.6	20.0	20.0	20.0	2.53	32.6	32.6	32.6
10	49.6	49.6	49.6	20.0	20.0	20.0	2.48	32.6	32.6	32.6
9	47.9	47.9	47.9	20.0	20.0	20.0	2.40	32.5	32.5	32.5
8	46.3	46.3	46.3	20.0	20.0	20.0	2.32	32.5	32.5	32.5
7	44.8	44.8	44.8	19.9	19.9	19.9	2.24	32.5	32.5	32.5
6	43.4	43.4	43.4	19.9	19.9	19.9	2.18	32.5	32.5	32.5
5	42.1	42.1	42.1	19.9	19.9	19.9	2.11	32.5	32.5	32.5
4	40.9	40.9	40.9	19.9	19.9	19.9	2.05	32.5	32.5	32.5
3	39.8	39.8	39.8	19.9	19.9	19.9	2.00	32.5	32.5	32.5
2	38.8	38.8	38.8	19.9	19.9	19.9	1.95	32.5	32.5	32.5
1	37.9	37.9	37.9	19.9	19.9	19.9	1.91	32.5	32.5	32.5
0	37.1	37.1	37.1	19.9	19.9	19.9	1.87	32.5	32.5	32.5
-1	36.4	36.4	36.4	19.9	19.9	19.9	1.83	32.5	32.5	32.5
-2	35.7	35.7	35.7	19.9	19.9	19.9	1.80	32.6	32.6	32.6
-3	35.1	35.1	35.1	19.9	19.9	19.9	1.77	32.6	32.6	32.6
-4	34.6	34.6	34.6	19.9	19.9	19.9	1.74	32.6	32.6	32.6
-5	34.2	34.2	34.2	19.9	19.9	19.9	1.72	32.6	32.6	32.6
-6	33.8	33.8	33.8	19.9	19.9	19.9	1.70	32.6	32.6	32.6
-7	33.5	33.5	33.5	19.9	19.9	19.9	1.68	32.6	32.6	32.6
-8	33.2	33.2	33.2	19.9	19.9	19.9	1.67	32.6	32.6	32.6
-9	33.0	33.0	33.0	19.9	19.9	19.9	1.66	32.6	32.6	32.6
-10	32.9	32.9	32.9	19.9	19.9	19.9	1.66	32.6	32.6	32.6
-11	32.2	32.2	32.2	19.9	19.9	19.9	1.62	32.6	32.6	32.6
-12	31.5	31.5	31.5	19.9	19.9	19.9	1.59	32.6	32.6	32.6
-13	30.9	30.9	30.9	19.9	19.9	19.9	1.55	32.6	32.6	32.6
-14	30.2	30.2	30.2	19.9	19.9	19.9	1.52	32.6	32.6	32.6
-15	29.6	29.6	29.6	19.9	19.9	19.9	1.49	32.6	32.6	32.6
-16										
-17										
-18										
-19										
-20										
-21										
-22										
-23										
-24										
-25										

* attention: operating limits not reflected in performance table

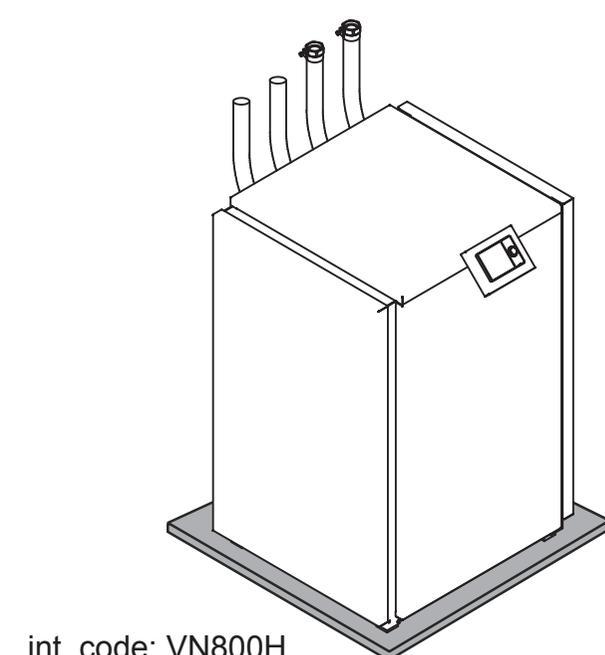
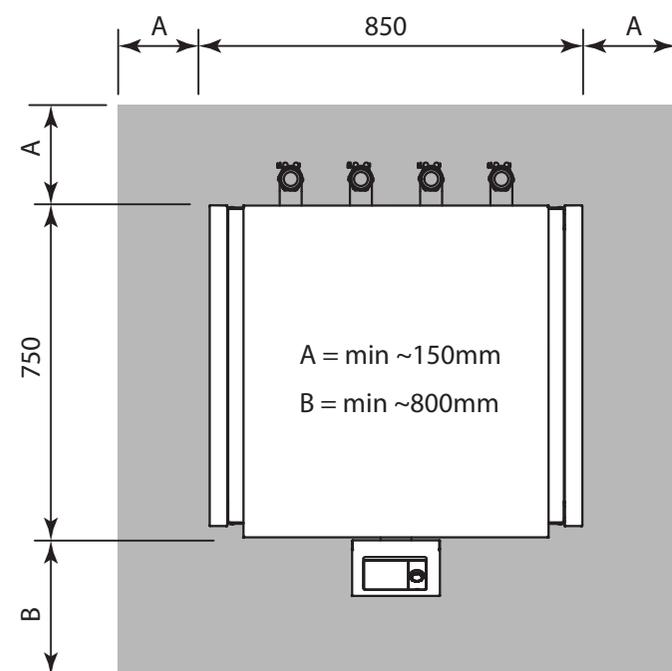
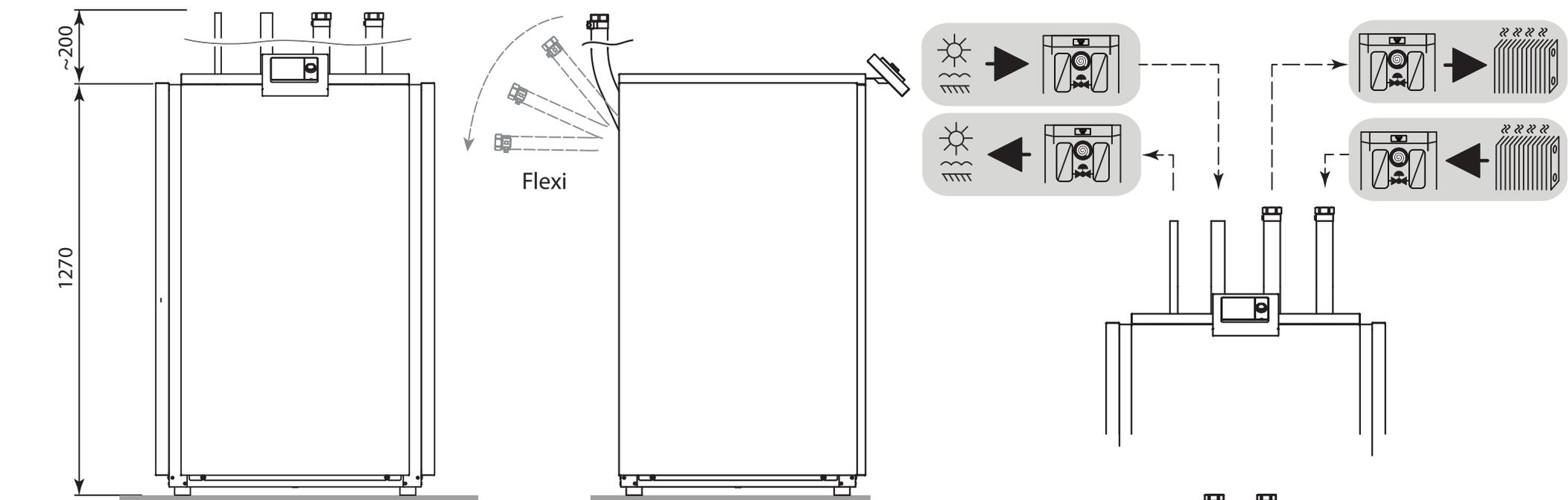
Tc [°C]		W 12 / 7 °C								
Ta [°C]	Qc nom [kW]	Qc min [kW]	Qc max [kW]	Pin [kW]	Pin min [kW]	Pin max [kW]	EER kW / kW	I nom [A]	I min [A]	I max [A]
40	30.4	30.4	30.4	13.1	13.1	13.1	2.32	24.5	24.5	24.5
39	30.6	30.6	30.6	12.8	12.8	12.8	2.40	24.3	24.3	24.3
38	30.8	30.8	30.8	12.5	12.5	12.5	2.47	24.0	24.0	24.0
37	31.0	31.0	31.0	12.2	12.2	12.2	2.54	23.8	23.8	23.8
36	31.2	31.2	31.2	11.9	11.9	11.9	2.62	23.5	23.5	23.5
35	31.4	31.4	31.4	11.7	11.7	11.7	2.70	23.3	23.3	23.3
34	31.7	31.7	31.7	11.4	11.4	11.4	2.78	23.1	23.1	23.1
33	31.9	31.9	31.9	11.1	11.1	11.1	2.86	22.9	22.9	22.9
32	32.0	32.0	32.0	10.9	10.9	10.9	2.94	22.7	22.7	22.7
31	32.2	32.2	32.2	10.7	10.7	10.7	3.02	22.5	22.5	22.5
30	32.4	32.4	32.4	10.4	10.4	10.4	3.11	22.3	22.3	22.3
29	32.6	32.6	32.6	10.2	10.2	10.2	3.19	22.2	22.2	22.2
28	32.8	32.8	32.8	10.0	10.0	10.0	3.28	22.0	22.0	22.0
27	33.0	33.0	33.0	9.8	9.8	9.8	3.37	21.8	21.8	21.8
26	33.1	33.1	33.1	9.6	9.6	9.6	3.45	21.6	21.6	21.6
25	33.3	33.3	33.3	9.4	9.4	9.4	3.54	21.4	21.4	21.4
24	33.5	33.5	33.5	9.2	9.2	9.2	3.64	21.2	21.2	21.2
23	33.6	33.6	33.6	9.0	9.0	9.0	3.73	21.0	21.0	21.0
22	33.8	33.8	33.8	8.8	8.8	8.8	3.82	20.8	20.8	20.8
21	33.9	33.9	33.9	8.7	8.7	8.7	3.92	20.6	20.6	20.6
20	34.1	34.1	34.1	8.5	8.5	8.5	4.01	20.4	20.4	20.4
19	34.2	34.2	34.2	8.3	8.3	8.3	4.11	20.2	20.2	20.2
18	34.4	34.4	34.4	8.2	8.2	8.2	4.21	19.9	19.9	19.9
17	34.5	34.5	34.5	8.0	8.0	8.0	4.31	19.7	19.7	19.7

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	41.4	41.4	41.4	13.1	13.1	13.1	3.16	24.7	24.7	24.7
39	41.6	41.6	41.6	12.8	12.8	12.8	3.26	24.4	24.4	24.4
38	41.9	41.9	41.9	12.5	12.5	12.5	3.36	24.2	24.2	24.2
37	42.2	42.2	42.2	12.2	12.2	12.2	3.46	23.9	23.9	23.9
36	42.4	42.4	42.4	11.9	11.9	11.9	3.56	23.7	23.7	23.7
35	42.7	42.7	42.7	11.7	11.7	11.7	3.66	23.4	23.4	23.4
34	42.9	42.9	42.9	11.4	11.4	11.4	3.76	23.2	23.2	23.2
33	43.1	43.1	43.1	11.1	11.1	11.1	3.87	23.0	23.0	23.0
32	43.4	43.4	43.4	10.9	10.9	10.9	3.98	22.8	22.8	22.8
31	43.6	43.6	43.6	10.7	10.7	10.7	4.09	22.6	22.6	22.6
30	43.8	43.8	43.8	10.4	10.4	10.4	4.20	22.4	22.4	22.4
29	44.0	44.0	44.0	10.2	10.2	10.2	4.31	22.2	22.2	22.2
28	44.3	44.3	44.3	10.0	10.0	10.0	4.42	22.0	22.0	22.0
27	44.5	44.5	44.5	9.8	9.8	9.8	4.54	21.8	21.8	21.8
26	44.7	44.7	44.7	9.6	9.6	9.6	4.66	21.5	21.5	21.5
25	44.9	44.9	44.9	9.4	9.4	9.4	4.77	21.3	21.3	21.3
24	45.1	45.1	45.1	9.2	9.2	9.2	4.89	21.1	21.1	21.1
23	45.3	45.3	45.3	9.0	9.0	9.0	5.02	20.9	20.9	20.9
22	45.4	45.4	45.4	8.8	8.8	8.8	5.14	20.6	20.6	20.6
21	45.6	45.6	45.6	8.7	8.7	8.7	5.26	20.4	20.4	20.4
20	45.8	45.8	45.8	8.5	8.5	8.5	5.39	20.1	20.1	20.1
19	46.0	46.0	46.0	8.3	8.3	8.3	5.52	19.9	19.9	19.9
18	46.1	46.1	46.1	8.2	8.2	8.2	5.65	19.6	19.6	19.6
17	46.3	46.3	46.3	8.0	8.0	8.0	5.78	19.3	19.3	19.3

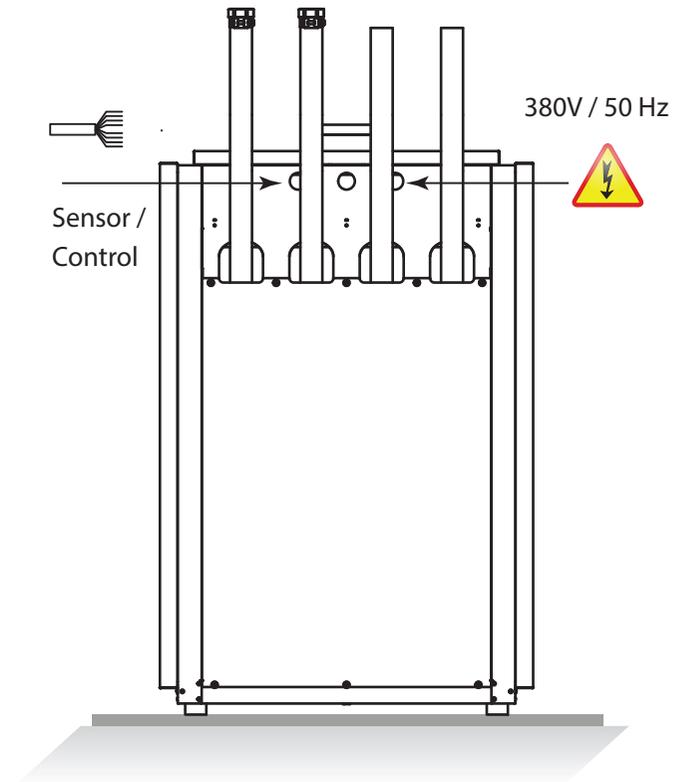
* attention: operating limits not reflected in performance table

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



int. code: VN800H



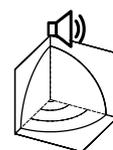
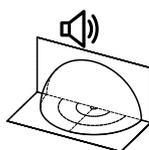
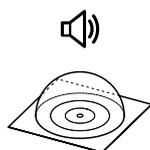
WAMAK AW 40 EVI - Split unit variant: VOV-900



Enclosure type: VOV-900			Evaporator	
Article	WAVV0900		Type	Cu-coil /Al-fin "
Basic dimensions	Height [mm]	1320	Port size	5/8" - 1.1/8" "
	Width [mm]	1390	Heat transfer medium	Air
	Length [mm]	1150	Volume flow - Air [m3/h]	13200
Weight [kg]	210		Internal pressure drop - Air [kPa]	0.024
Colour	Inox		Temperature difference - Air	7 K
Enclosure IP Class	IP44		Expansion valve	EEV
Fan	800 mm			
Number of fans	1		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

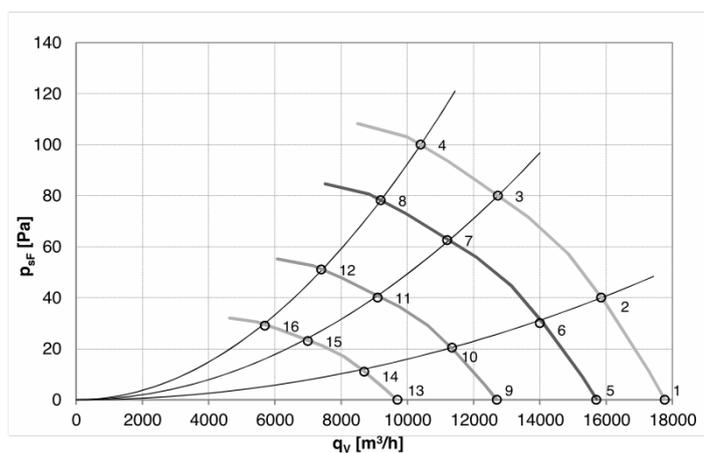
Acoustic power Lw

66.8 dB(A)

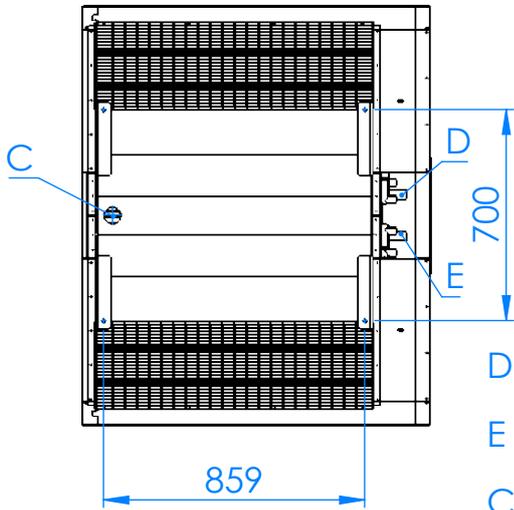
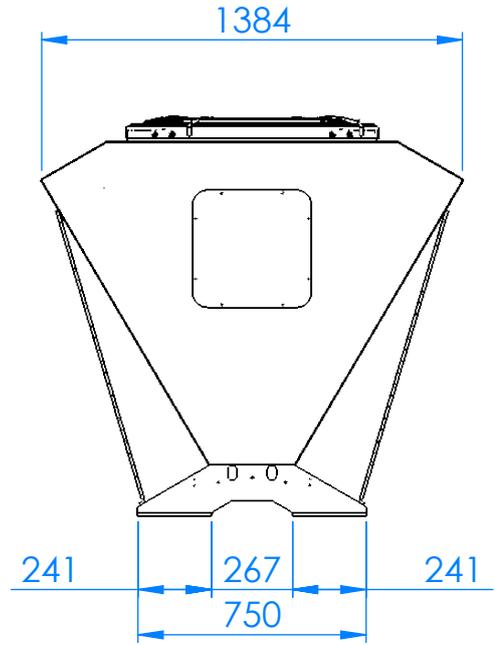
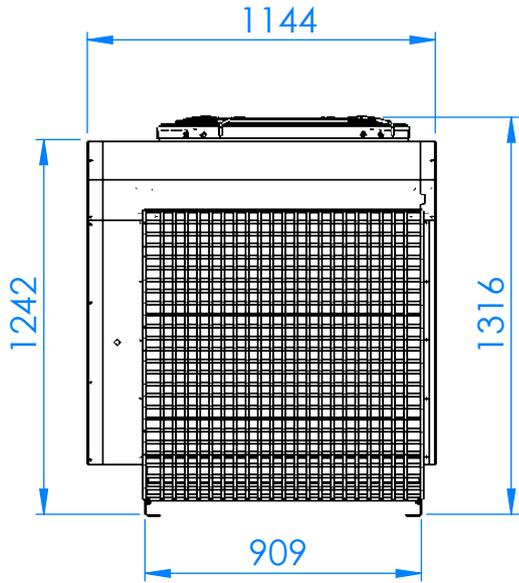


Distance [m]	1				5				10				15			
	1	5	10	15	1	5	10	15	1	5	10	15	1	5	10	15
Acoustic pressure Lp [dB(A)]	61.8	47.8	41.8	38.3	64.8	50.8	44.8	41.3	58.8	44.8	38.8	35.3				

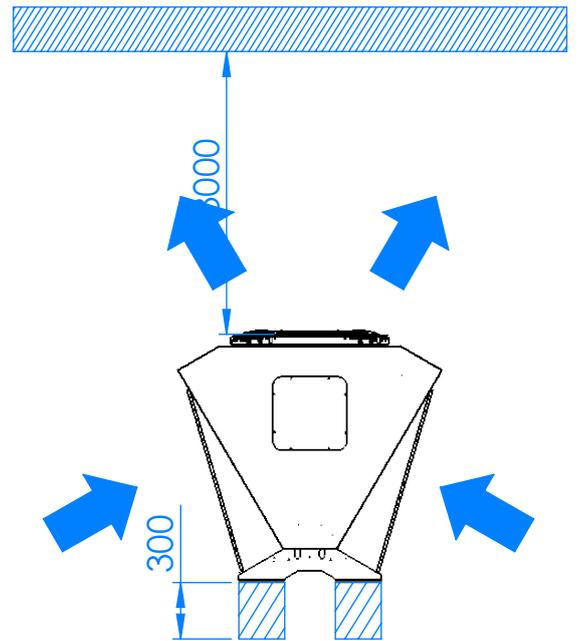
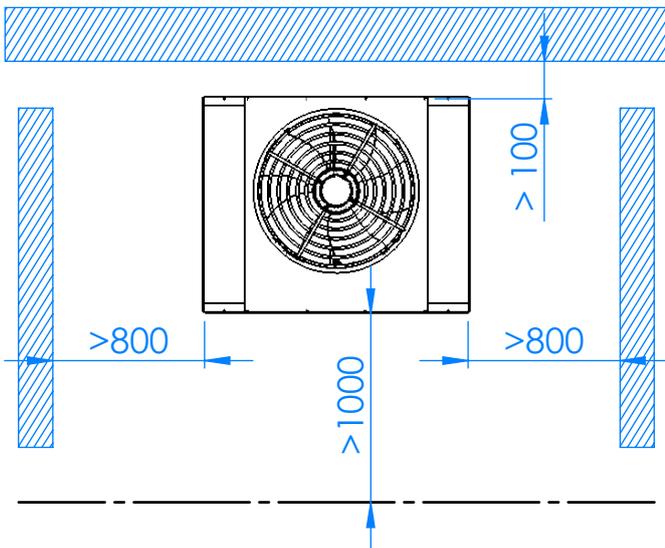
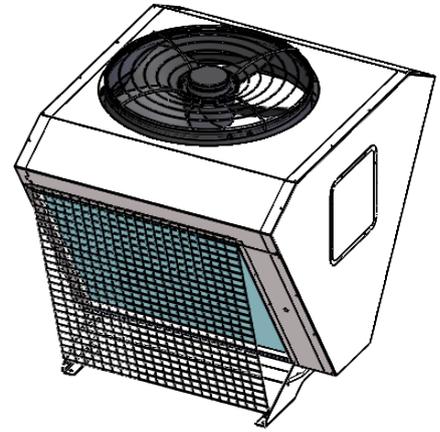
EC Fan 800mm



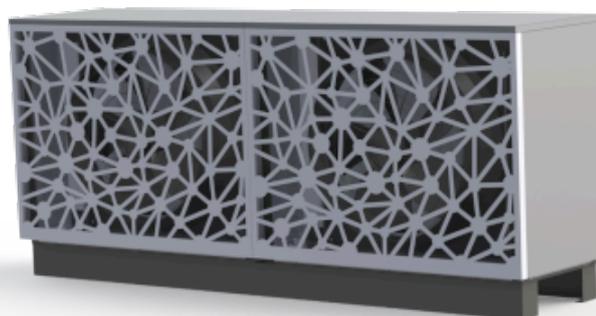
	U	f	n	qv	P _{sF}	P _e	I	L _{wA out}	T _{a max}
	[V]	[Hz]	[RPM]	[m³/h]	[Pa]	[W]	[A]	[dB (A)]	[°C]
1	400	50	735	17770	0	503	0,85	70	60
2	400	50	735	15850	40	612	1,02	66	60
3	400	50	735	12730	80	735	1,18	65	60
4	400	50	735	10400	100	802	1,36	68	60
5	400	50	650	15700	0	348	0,68	67	60
6	400	50	650	14000	30	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



D - FRIGO GAS
E - FRIGO LIQUID
C - CONDENS



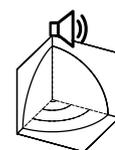
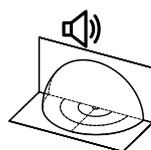
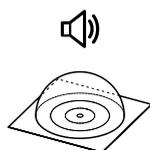
WAMAK AW 40 EVI - Split unit variant: VOII-1200-2LOW



Enclosure type: VOII-1200-2LOW			Evaporator	
Article	WAVII12L		Type	Cu-coil /Al-fin "
Basic dimensions	Height [mm]	1240	Port size	5/8" - 1.1/8" "
	Width [mm]	2850	Heat transfer medium	Air
	Length [mm]	710	Volume flow - Air [m3/h]	13200
Weight [kg]	300		Internal pressure drop - Air [kPa]	0.024
Colour	Gray		Temperature difference - Air	7 K
Enclosure IP Class	IP44		Expansion valve	EEV
Fan	800 mm			
Number of fans	2		Fan mounting position	Horizontal axis
Fan motor type	EC		Fan type	Axial
Fan nominal current [A]	1.35		Fan power supply [V/Hz]	3~ 400/50
Minimal fan power input [Watt]	81		Maximal fan power input [Watt]	802

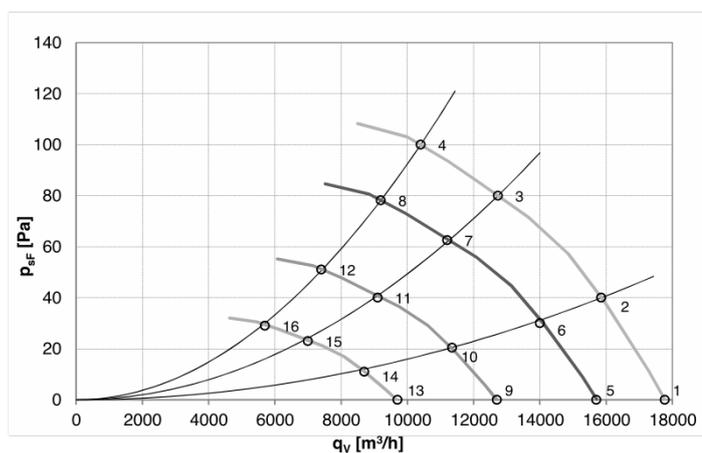
Acoustic power Lw

62.5 dB(A)

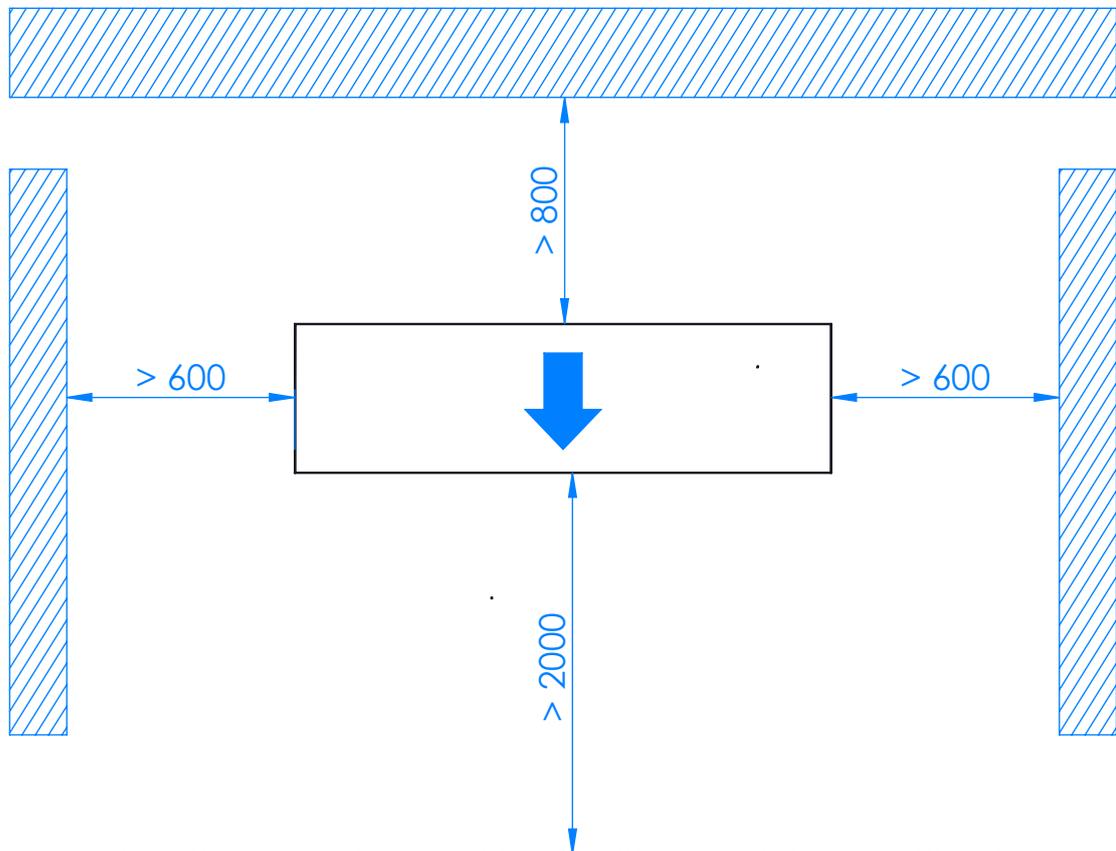
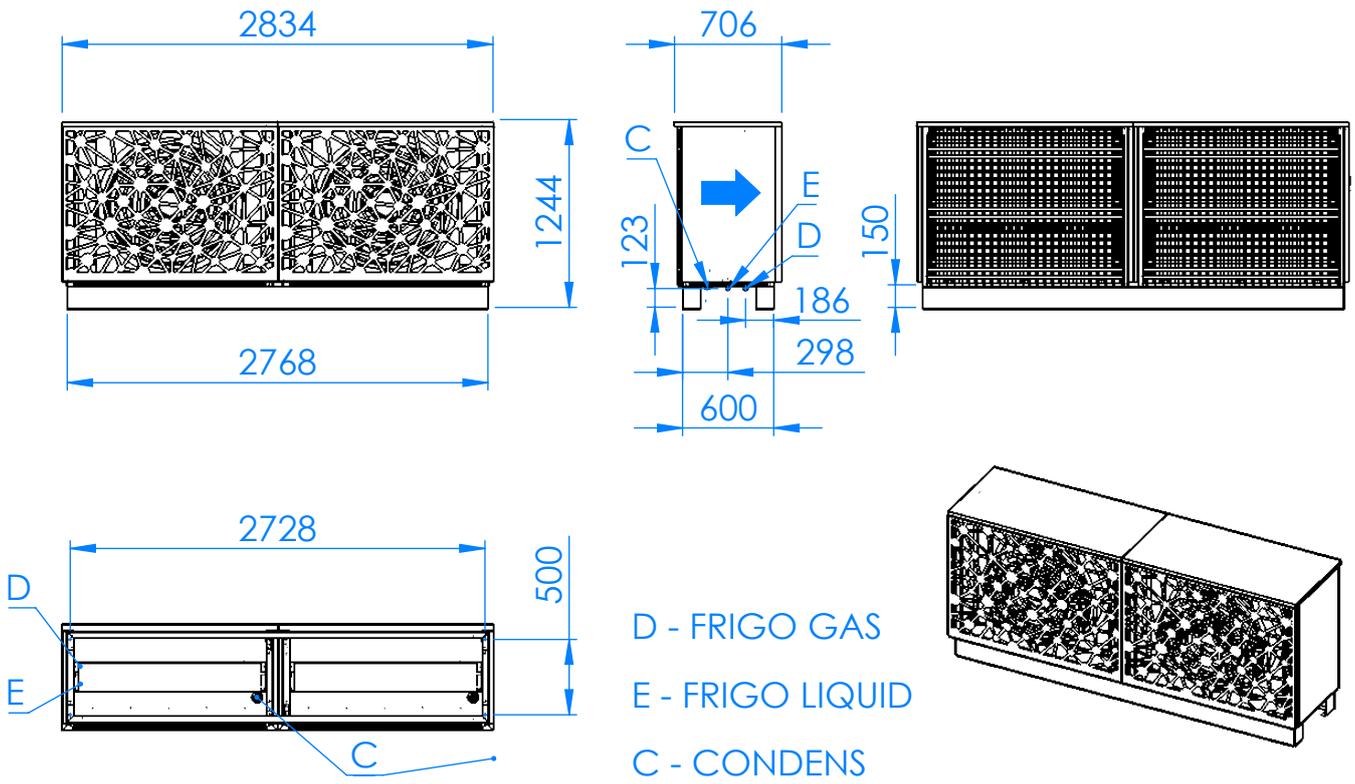


Distance [m]	1				5				10				15			
	1	5	10	15	1	5	10	15	1	5	10	15	1	5	10	15
Acoustic pressure Lp [dB(A)]	57.5	43.5	37.5	34	60.5	46.5	40.5	37	54.5	40.5	34.5	31				

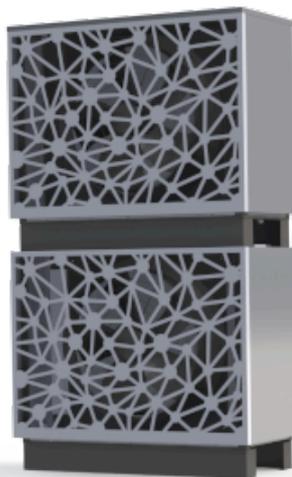
EC Fan 800mm



	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



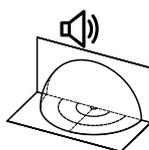
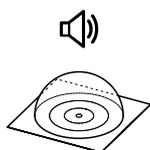
WAMAK AW 40 EVI - Split unit variant: VOII-1200-2HIGH



Enclosure type: VOII-1200-2HIGH			Evaporator	
Article	WAVII12H		Type	Cu-coil /Al-fin "
Basic dimensions	Height [mm]	2450	Port size	5/8" - 1.1/8" "
	Width [mm]	1420	Heat transfer medium	Air
	Length [mm]	710	Volume flow - Air [m3/h]	13200
Weight [kg]	300		Internal pressure drop - Air [kPa]	0.024
Colour	Gray		Temperature difference - Air	7 K
Enclosure IP Class	IP44		Expansion valve	EEV
Fan	800 mm			
Number of fans	2		Fan mounting position	Horizontal axis
Fan motor type	EC		Fan type	Axial
Fan nominal current [A]	1.35		Fan power supply [V/Hz]	3~ 400/50
Minimal fan power input [Watt]	81		Maximal fan power input [Watt]	802

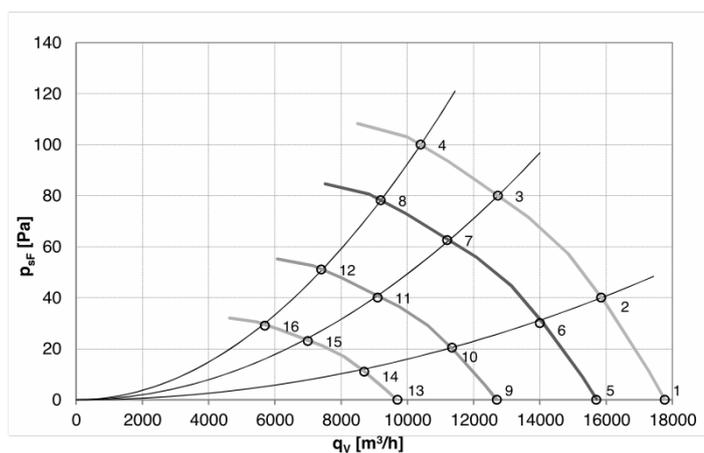
Acoustic power Lw

62.5 dB(A)

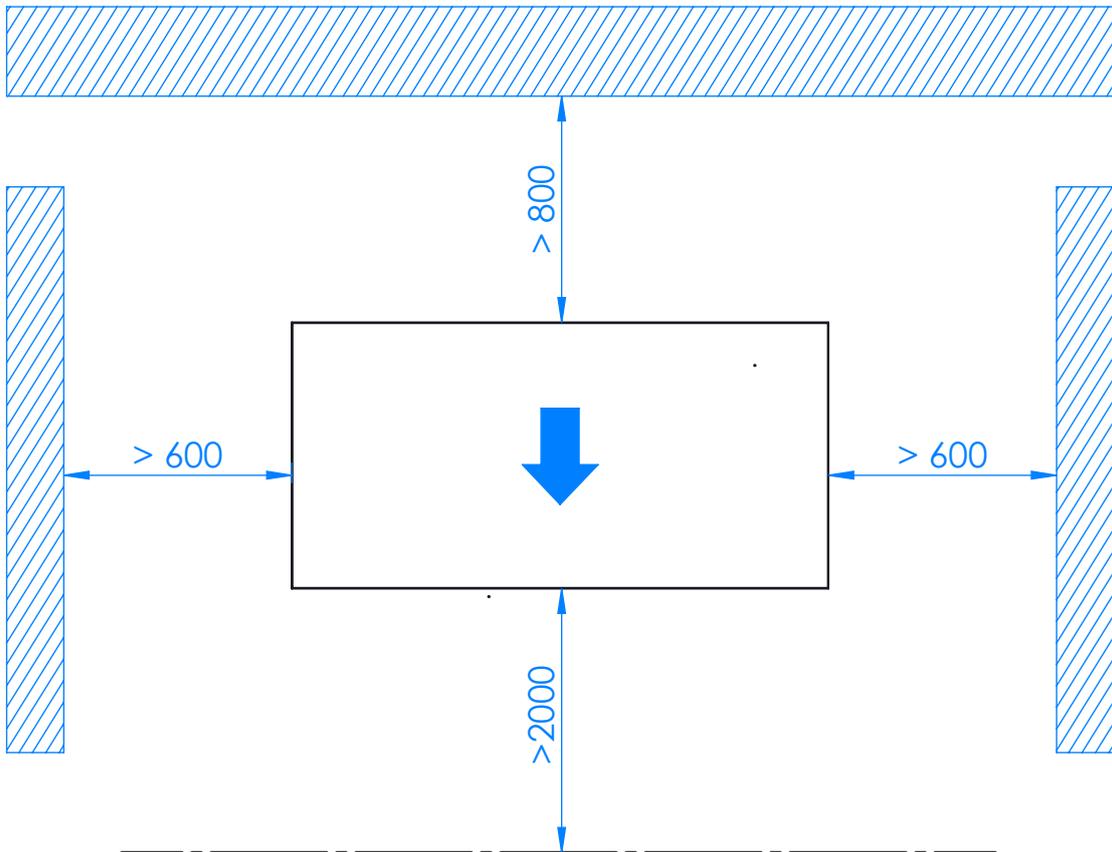
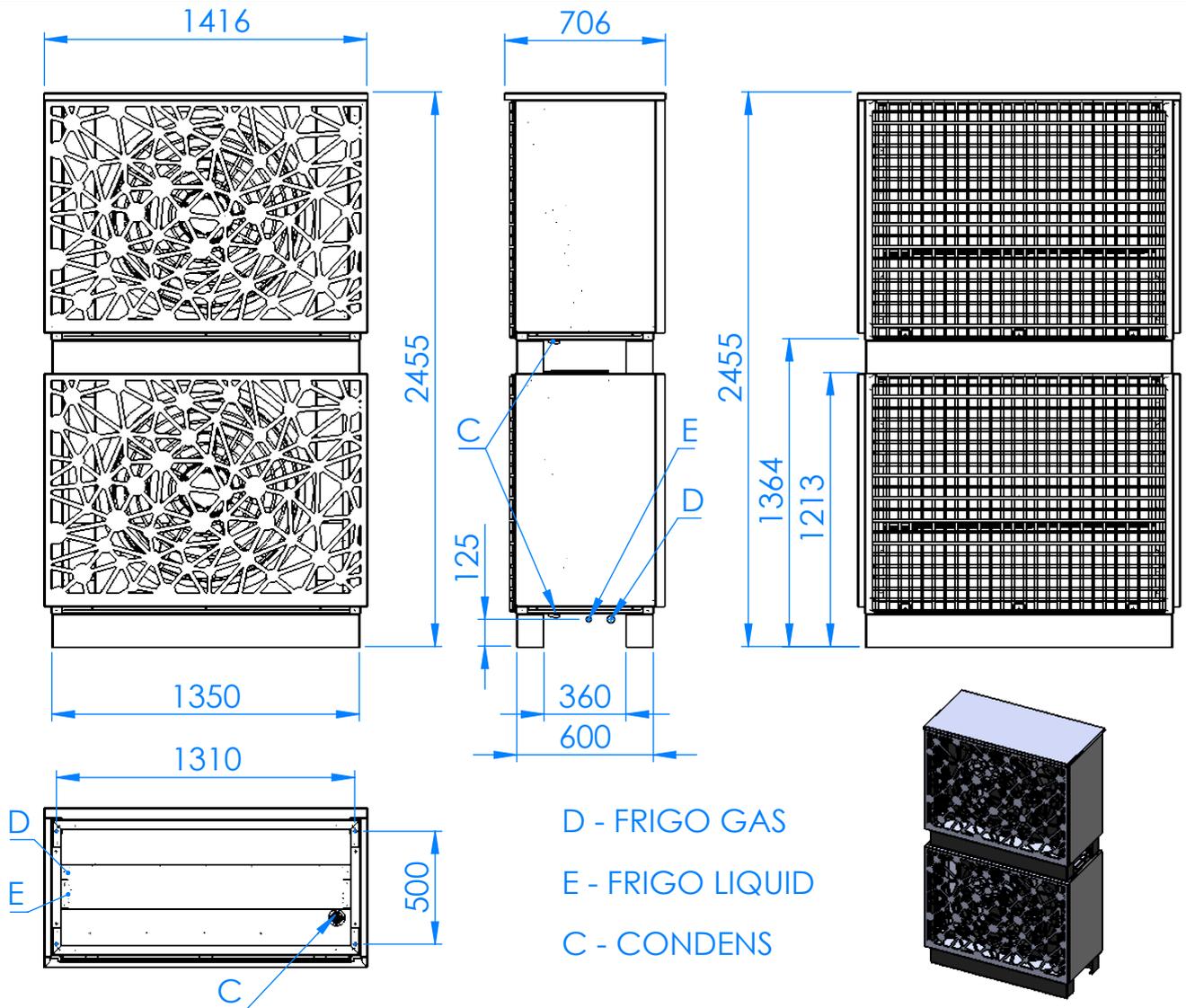


Distance [m]	1				5				10				15			
	1	5	10	15	1	5	10	15	1	5	10	15	1	5	10	15
Acoustic pressure Lp [dB(A)]	57.5	43.5	37.5	34	60.5	46.5	40.5	37	54.5	40.5	34.5	31				

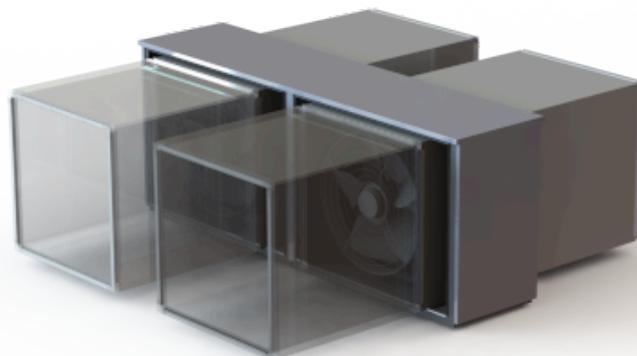
EC Fan 800mm



	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



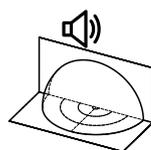
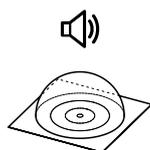
WAMAK AW 40 EVI - Split unit variant: VOII-1200-2LOW-DUCT



Enclosure type: VOII-1200-2LOW-DUCT			Evaporator	
Article	WAVID12L		Type	Cu-coil /Al-fin "
Basic dimensions	Height [mm]	1240	Port size	5/8" - 1.1/8" "
	Width [mm]	2850	Heat transfer medium	Air
	Length [mm]	710	Volume flow - Air [m3/h]	13200
Weight [kg]	300		Internal pressure drop - Air [kPa]	0.024
Colour	Gray		Temperature difference - Air	7 K
Enclosure IP Class	IP44		Expansion valve	EEV
Fan	800 mm			
Number of fans	2		Fan mounting position	Horizontal axis
Fan motor type	EC		Fan type	Axial
Fan nominal current [A]	1.35		Fan power supply [V/Hz]	3~ 400/50
Minimal fan power input [Watt]	81		Maximal fan power input [Watt]	802

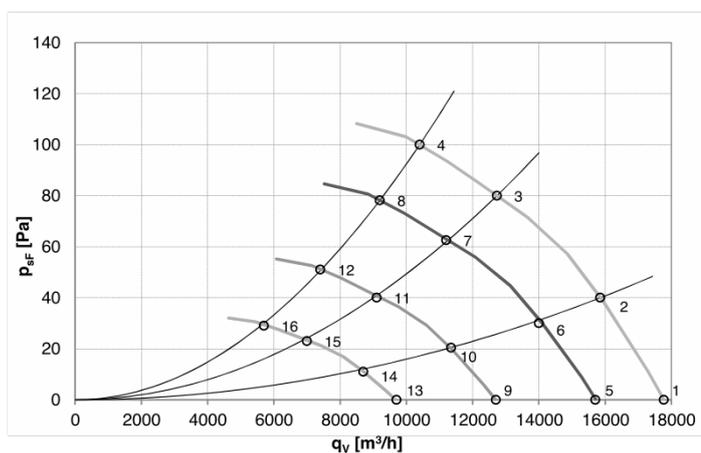
Acoustic power L_w

62.5 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)]	57.5	43.5	37.5	34	60.5	46.5	40.5	37	54.5	40.5	34.5	31				

EC Fan 800mm



	U [V]	f [Hz]	n [RPM]	q _v [m³/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

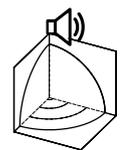
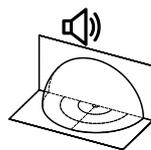
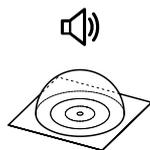
WAMAK AW 40 EVI - Split unit variant: VOII-1200-2HIGH-DUCT



Enclosure type: VOII-1200-2HIGH-DUCT			Evaporator	
Article	WAVID12H		Type	Cu-coil /Al-fin "
Basic dimensions	Height [mm]	2450	Port size	5/8" - 1.1/8" "
	Width [mm]	1420	Heat transfer medium	Air
	Length [mm]	710	Volume flow - Air [m3/h]	13200
Weight [kg]	300		Internal pressure drop - Air [kPa]	0.024
Colour	Gray		Temperature difference - Air	7 K
Enclosure IP Class	IP44		Expansion valve	EEV
Fan	800 mm			
Number of fans	2		Fan mounting position	Horizontal axis
Fan motor type	EC		Fan type	Axial
Fan nominal current [A]	1.35		Fan power supply [V/Hz]	3~ 400/50
Minimal fan power input [Watt]	81		Maximal fan power input [Watt]	802

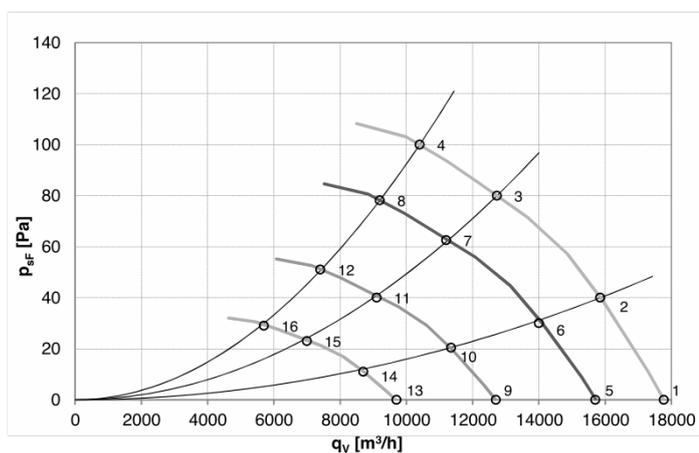
Acoustic power L_w

62.5 dB(A)

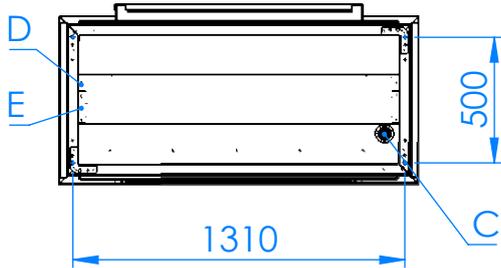
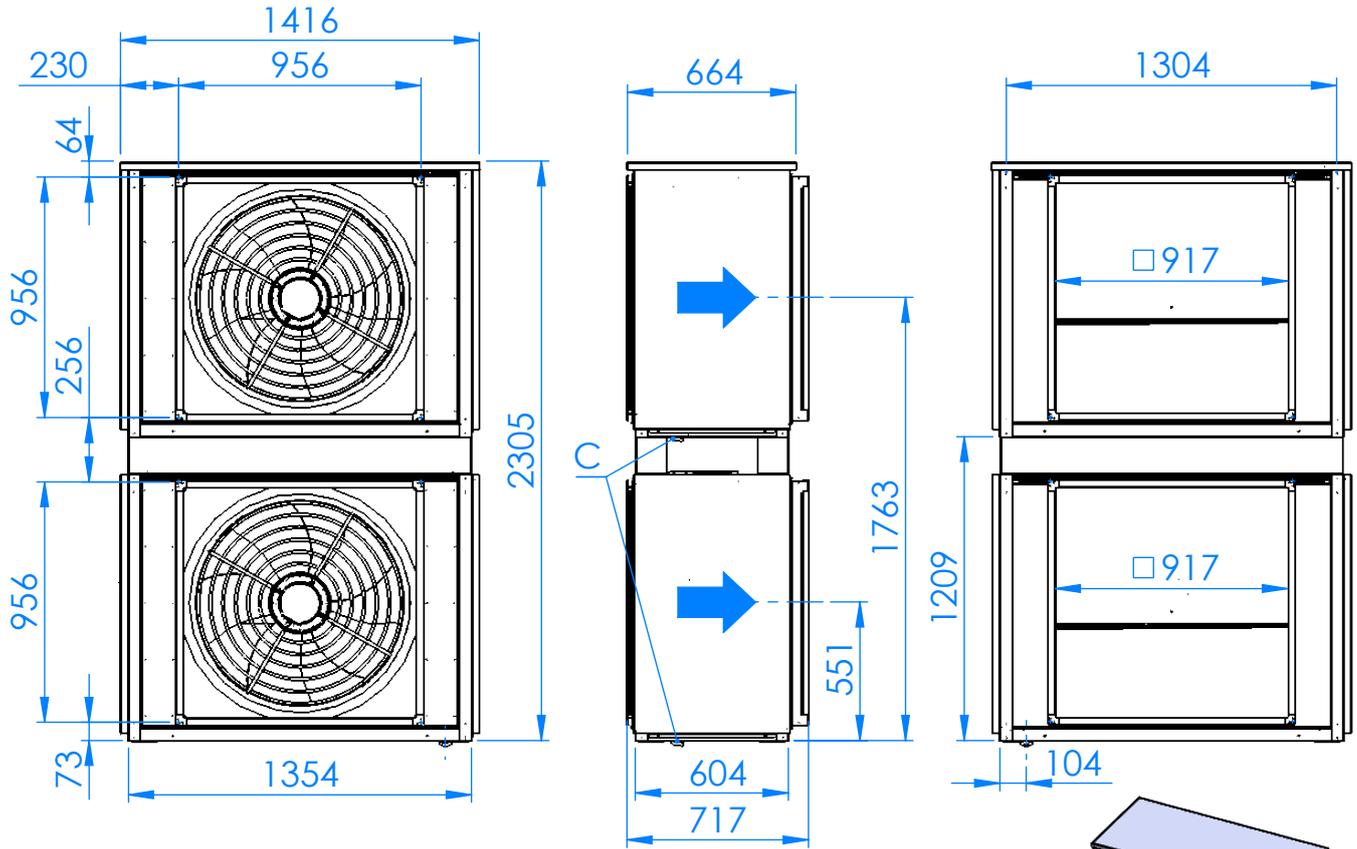


Distance [m]	1				5				10				15			
	1	5	10	15	1	5	10	15	1	5	10	15	1	5	10	15
Acoustic pressure L _p [dB(A)]	57.5	43.5	37.5	34	60.5	46.5	40.5	37	54.5	40.5	34.5	31				

EC Fan 800mm



	U [V]	f [Hz]	n [RPM]	q _v [m³/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



D - FRIGO GAS
 E - FRIGO LIQUID
 C - CONDENS

