



WAMAK

Heat pump



SCROLL



EC FAN



EEV



APS SYS



HEAT COOL



WEB APP



pssst ...



AW 35 EVI

WAMAK AW 35 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)
- High pressure switch
- Low pressure sensor - analogue
- Flow sensor consumer - analogue
- ECM speed circulator - condenser
- Direct heating/cooling circuit control
- DHW circulation control
- DHW temperature sensor - (with accessory)
- Cascade control - (with accessory)
- Solid frame structure
- Sylomer pads under compressor unit
- Electronic expansion valve
- Large air heat exchanger with APS system
- Reversible defrosting
- Speed - controlled EC fan
- 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 - (with accessory)
- Buffer temperature sensor - (with accessory)
- Modbus connection - (with accessory)

Basic performance data - WAMAK AW 35 EVI

Heating - EN 14511		
Heating capacity [kW]	A7 / W35	38.0
	A2 / W35	32.3
	A-7 / W34	27.0
Electrical power input [kW]	A7 / W35	8.8
	A2 / W35	8.8
	A-7 / W34	8.6
Heating efficiency faktor [COP]	A7 / W35	4.31
	A2 / W35	3.67
	A-7 / W34	3.14
Seasonal space heating energy efficiency - SCOP EN 14825		
Average Climate / Low Temperature [35°C]	SCOP	4.14
	η [%]	165.8
	Label	A+++
	Qhe [kWh]	63219.6
	Pdesignh [kW]	30.6
	Tbivalent [°C]	-7
Cooling		
Cooling capacity - [kW]	A35 / W23-18	37.4
	A25 / W23-18	39.0
	A35 / W12-7	27.8
	A25 / W12-7	27.8
Seasonal space cooling energy efficiency - SEER EN 14825		
[W 23 / 18°C]	SEER	4.39
	Qce [kWh]	16680.0
	ηc [%]	175.8
Sound EN 12102		
Acoustic power - Lw	dB(A)	62.5
Acoustic pressure - Lp	1 m dB(A)	54.5
	5 m dB(A)	40.5
	10 m dB(A)	34.5
Mechanical and operational information		
Compressor type (3~ 400/50)	SCROLL / 1 /	On/Off
Refrigerant	R410A (GWP - 2088)	8.2 kg
Operating limit temperatures heating - (min / max) [°C]	25 / 65	
Operating limit temperatures source - (min / max) [°C]	-22 / 40	
Weight	240 kg	

Main technical data - WAMAK AW 35 EVI

Enclosure type			VN800H		
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]	240	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]	6	
	On/Off		Testing pressure [bar]	70	
	Power factor Cosφ	0.55	Heat transfer medium	Water	
	Winding resistance	0.83 Ohm	Volume flow @ dT 5K (nom) - Water [m³/h]	6.56	
Refrigerant		R410A	Internal pressure drop - Water [kPa]	12	
	Volme	8.2 kg	ECM speed circulator - condenser	UPMXL GEO 32-125	
	GWP	2088	Flow sensor consumer - analogue	0..10V	
	Safety class	A1	Temperature difference	@ 35°C (nom)	5 K
Refrigeration oil type	POE RL32-3MAF			@ 55°C	8 K
	Oil volume	3.38 L		@ 65°C	10 K
Maximal pressure - refrigerant [bar]	50	Renewable energy extraction side data			
PED class	2	Operating limit temperatures source	MIN [°C]	-22	
EVI - vapour injection with economizer			MAX [°C]	40	
APS System of liquid subcooling		for more see operating limits diagram			
Reversible operation (cooling)		Evaporator	Port size	5/8" - 1.1/8" "	
Reverse defrosting with hot gas			Type	Cu-coil /Al-fin	
Plate exchanger protection HG-BYPASS			Count	1	
Electrical connection data			Material	Cu/Al	
Line voltage [#~ V/Hz]	3~ 400/50	Maximal operating pressure - refrigerant [bar]	29		
Current	nominal [A]	21.23	Heat transfer medium	Air	
	maximal [A]	32.50	Volume flow - Air [m³/h]	11650	
	starting [A]	49.7	Internal pressure drop - Air [kPa]	0.027	
Softstart	-	Temperature difference - Air	7 K		
Main safety	C32	Possible outdoor units			
Control System			1 x VOV-900		
Main controller	SIEMENS	RVS 21 AVS 55.199	1 x VOII-1200-2LOW		
Extension module	AVS75.3xx	AVS75.3xx	1 x VOII-1200-2HIGH		
Bus Clip-In		AVS75.372	1 x VOII-1200-2LOW-DUCT		
Online connection	LPB OCI346	Modbus OCI352	1 x VOII-1200-2HIGH-DUCT		
Superheat controller		ToSyMo OZW672	Split System (compressor indoors)		
*** with accessory			Liquid line dimension (up to 8 meters IU/OU)	5/8"	
SEC61			Suction line dimension (up to 8 meters IU/OU)	1.1/8"	
			Surcharge of refrigerant over 8 meter distance IU/OU	0.19 kg/m	
			air - water SPLIT heat pumps indoor units are delivered without full refrigerant charge only with residual overpressure from testing		

WAMAK AW 35 EVI

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

Model	AW 35 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	30.6	kW	Seasonal space heating energy efficiency	ηs	165.8	%
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	27.0	kW	Tj = -7 °C	COPd	3.14	-
Tj = +2 °C	Pdh	31.9	kW	Tj = +2 °C	COPd	4.0	-
Tj = +7 °C	Pdh	37.3	kW	Tj = +7 °C	COPd	5.1	-
Tj = +12 °C	Pdh	43.4	kW	Tj = +12 °C	COPd	6.7	-
Tj = bivalent temperature	Pdh	26.5	kW	Tj = bivalent temperature	COPd	3.0	-
Tj = operation limit temperature	Pdh	19.2	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	13.7	kW
Standby mode	Psb	0.010	kW	Type of energy input			
Crankcase heater mode	Pck	0.050	kW	For air-to-water heat pumps: Rated air flow rate, outdoors	-	11650	m3/h
Other items				For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	---	m3/h
Capacity control		fixed		Annual energy consumption	QHE	63219.6	kWh
Sound power level							
indoors	Lwa	63	dB				
outdoors	Lwa	64	dB				
Annual energy consumption	QHE	63219.6	kWh				

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

WAMAK AW 35 EVI

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

Model	AW 35 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	32.5	kW	Seasonal space heating energy efficiency	ηs	130.2	%
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	28.4	kW	Tj = -7 °C	COPd	2.21	-
Tj = +2 °C	Pdh	32.7	kW	Tj = +2 °C	COPd	3.2	-
Tj = +7 °C	Pdh	38.0	kW	Tj = +7 °C	COPd	4.2	-
Tj = +12 °C	Pdh	44.0	kW	Tj = +12 °C	COPd	5.7	-
Tj = bivalent temperature	Pdh	28.2	kW	Tj = bivalent temperature	COPd	2.0	-
Tj = operation limit temperature	Pdh	21.2	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	13.7	kW
Standby mode	Psb	0.010	kW	Type of energy input			
Crankcase heater mode	Pck	0.050	kW	For air-to-water heat pumps: Rated air flow rate, outdoors	-	11650	m3/h
Other items				For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	---	m3/h
Capacity control		fixed		Annual energy consumption	QHE	67145.0	kWh
Sound power level							
indoors	Lwa	63	dB				
outdoors	Lwa	64	dB				
Annual energy consumption	QHE	67145.0	kWh				

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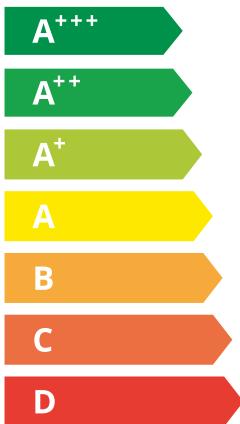
WAMAK

AW 35 EVI



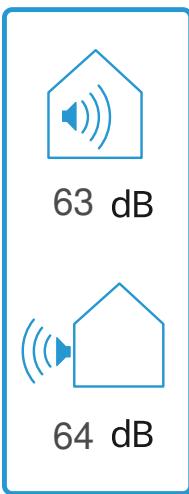
55 °C

35 °C

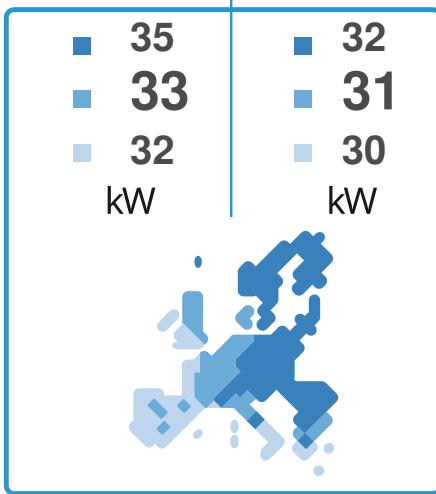


A⁺⁺

A⁺⁺⁺



2019



811/2013

AW 35 EVI

ErP Data

	55 °C	35 °C
Energy class	A++	A+++
η [%]	130.2	165.8
P _{rated} [kW]	33	31
Q _{HE} [kWh/y]	67145	63220
SCOP [-]	3.25	4.14
T _{bivalent} [°C]	-7	-7

CONTROLLER



+ QAA55/75

- QAA55/75

class VII

class III

3.5% ↓

1.5% ↓

Heating performance data

Version: v2024.004-AW

Average Climate / Low Temperature [35°C]

ZHI35K1P-TFD_R410A_1_AW

Operating conditions		Qh	P	COP
1	A7 / W30-35	38.0	8.8	4.31
2	A2 / W35	32.3	8.8	3.67
3	A-22 / W35	19.2	8.8	2.18
A	A-7 / W34	27.0	8.6	3.14
B	A2 / W30	31.9	7.9	4.04
C	A7 / W27	37.3	7.3	5.11
D	A12 / W24	43.4	6.5	6.68
E	A-10 / W35	26.5	8.8	3.02
F	A-7 / W34	27.0	8.6	3.14

Average Climate / Medium Temperature [55°C]

SCOP DATA EN 14825:2018	
Average Climate / Low Temperature [35°C]	
SCOPon	4.24
SCOPnet	4.28
SCOP	4.14
η [%]	165.76
Label	A+++
Qh [kWh]	63219.60
Pdesignh [kW]	30.6
Tbivalent [°C]	-7.00

Operating conditions		Qh	P	COP
1	A7 / W47-55	39.2	14.2	2.77
2	A2 / W55	33.8	14.0	2.41
3	A-22 / W55	21.2	13.0	1.51
A	A-7 / W52	28.4	12.9	2.21
B	A2 / W42	32.7	10.3	3.19
C	A7 / W36	38.0	9.0	4.22
D	A12 / W30	44.0	7.7	5.73
E	A-10 / W55	28.2	13.9	2.04
F	A-7 / W55	28.8	13.9	2.07

SCOP DATA EN 14825:2018	
Average Climate / Medium Temperature [55°C]	
SCOPon	3.31
SCOPnet	3.34
SCOP	3.25
η [%]	130.20
Label	A++
Qh [kWh]	67145.00
Pdesignh [kW]	32.5
Tbivalent [°C]	-7.00

Cooling performance data**Low temperature cooling W 12 / 7°C**

Operating conditions		Qc	P	EER
A	A35 / W12-7	27.8	10.6	2.63
B	A30 / W12-7	28.6	9.4	3.03
C	A25 / W12-7	29.1	8.4	3.46
D	A20 / W12-7	29.5	7.5	3.93

SEER DATA EN 14825:2018 [W 12 / 7°C]	
SEERon	3.38
SEER	3.30
Qc [kWh]	16680.00
η [%]	132.11

Radiant cooling W 23 / 18°C

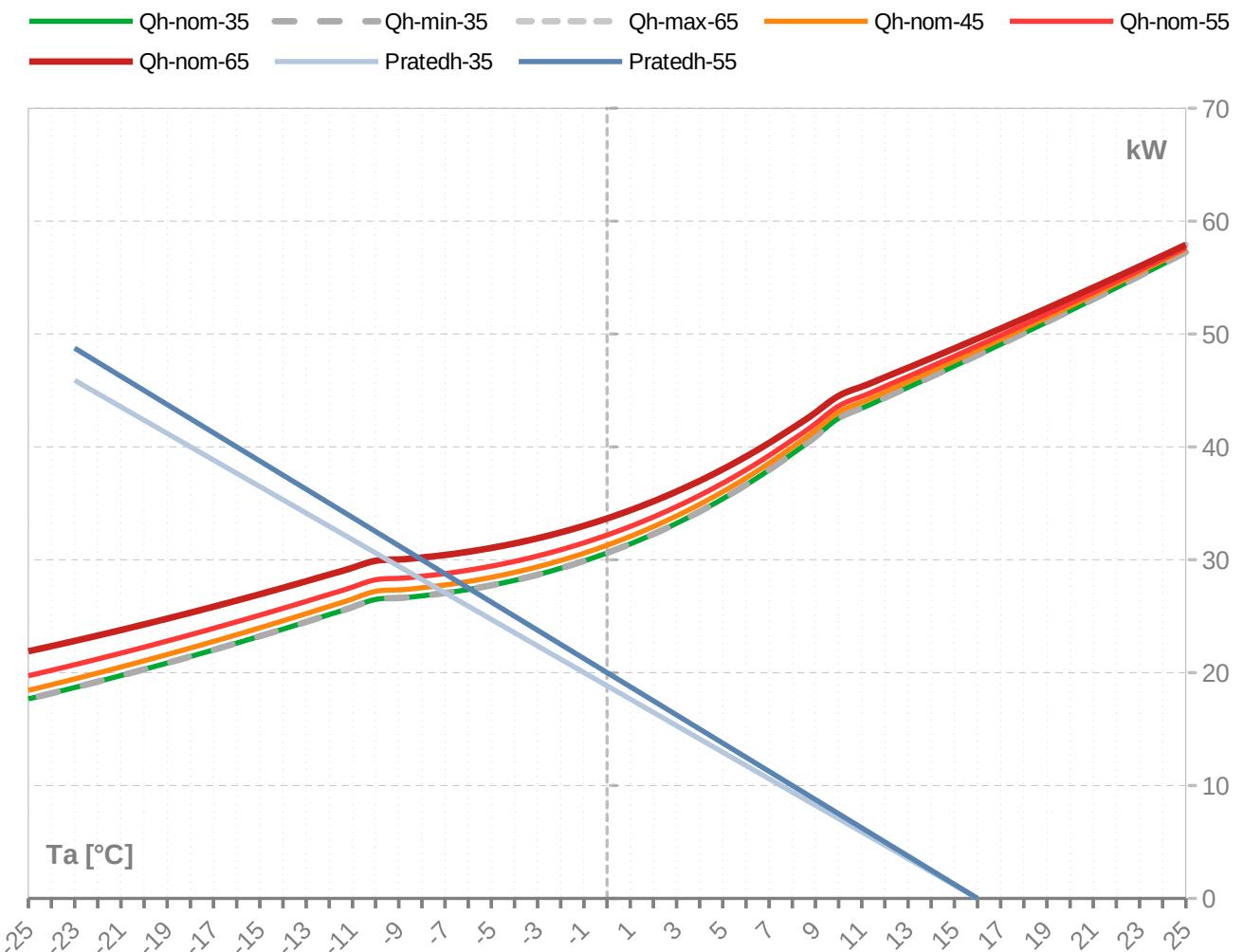
Operating conditions		Qc	P	EER
A	A35 / W23-18	37.4	10.6	3.54
B	A30 / W23-18	38.3	8.7	4.06
C	A25 / W23-18	39.0	7.6	4.63
D	A20 / W23-18	39.6	6.7	5.27

SEER DATA EN 14825:2018 [W 23 / 18°C]	
SEERon	4.52
SEER	4.39
Qc [kWh]	16680.00
η [%]	175.76

WAMAK AW 35 EVI

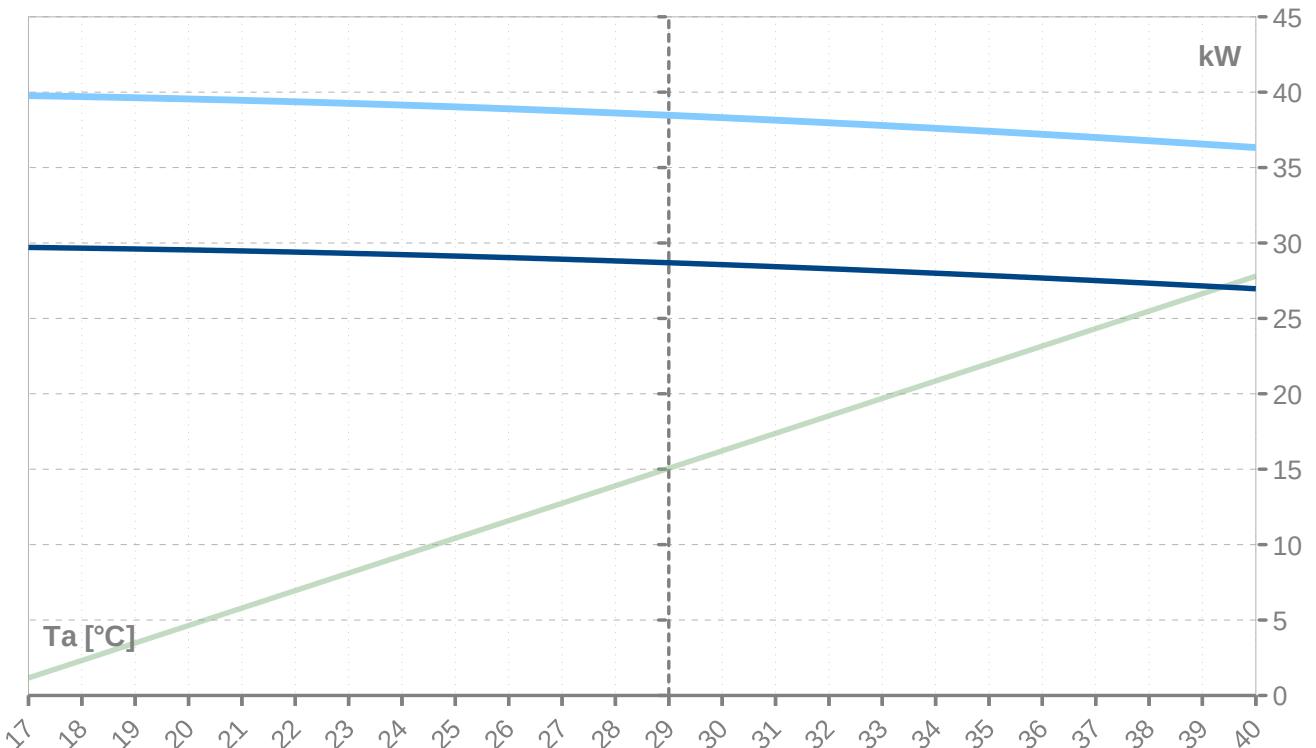
Performance lines - heating

ZHI35K1P-TFD_R410A_1_AW



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	49.1	49.1		8.6	8.6			5.72	20.9	20.9	
24	49.1	49.1		8.6	8.6			5.72	20.9	20.9	
23	49.1	49.1		8.6	8.6			5.72	20.9	20.9	
22	49.1	49.1		8.6	8.6			5.72	20.9	20.9	
21	49.1	49.1		8.6	8.6			5.72	20.9	20.9	
20	49.1	49.1		8.6	8.6			5.72	20.9	20.9	
19	49.1	49.1		8.6	8.6			5.72	20.9	20.9	
18	49.1	49.1		8.6	8.6			5.72	20.9	20.9	
17	49.1	49.1		8.6	8.6			5.72	20.9	20.9	
16	48.1	48.1	48.1	8.6	8.6	8.6	5.58	20.9	20.9	20.9	
15	47.2	47.2	47.2	8.6	8.6	8.6	5.45	21.0	21.0	21.0	
14	46.2	46.2	46.2	8.7	8.7	8.7	5.33	21.0	21.0	21.0	
13	45.3	45.3	45.3	8.7	8.7	8.7	5.20	21.0	21.0	21.0	
12	44.4	44.4	44.4	8.7	8.7	8.7	5.08	21.1	21.1	21.1	
11	43.4	43.4	43.4	8.7	8.7	8.7	4.97	21.1	21.1	21.1	
10	42.5	42.5	42.5	8.8	8.8	8.8	4.85	21.1	21.1	21.1	
9	40.9	40.9	40.9	8.8	8.8	8.8	4.66	21.2	21.2	21.2	
8	39.4	39.4	39.4	8.8	8.8	8.8	4.48	21.2	21.2	21.2	
7	38.0	38.0	38.0	8.8	8.8	8.8	4.31	21.2	21.2	21.2	
6	36.6	36.6	36.6	8.8	8.8	8.8	4.16	21.2	21.2	21.2	
5	35.4	35.4	35.4	8.8	8.8	8.8	4.02	21.2	21.2	21.2	
4	34.3	34.3	34.3	8.8	8.8	8.8	3.89	21.2	21.2	21.2	
3	33.2	33.2	33.2	8.8	8.8	8.8	3.77	21.2	21.2	21.2	
2	32.3	32.3	32.3	8.8	8.8	8.8	3.67	21.2	21.2	21.2	
1	31.4	31.4	31.4	8.8	8.8	8.8	3.57	21.2	21.2	21.2	
0	30.6	30.6	30.6	8.8	8.8	8.8	3.48	21.2	21.2	21.2	
-1	29.9	29.9	29.9	8.8	8.8	8.8	3.40	21.2	21.2	21.2	
-2	29.2	29.2	29.2	8.8	8.8	8.8	3.33	21.2	21.2	21.2	
-3	28.7	28.7	28.7	8.8	8.8	8.8	3.27	21.2	21.2	21.2	
-4	28.2	28.2	28.2	8.8	8.8	8.8	3.21	21.2	21.2	21.2	
-5	27.7	27.7	27.7	8.8	8.8	8.8	3.16	21.2	21.2	21.2	
-6	27.4	27.4	27.4	8.8	8.8	8.8	3.12	21.2	21.2	21.2	
-7	27.1	27.1	27.1	8.8	8.8	8.8	3.09	21.2	21.2	21.2	
-8	26.8	26.8	26.8	8.8	8.8	8.8	3.06	21.2	21.2	21.2	
-9	26.6	26.6	26.6	8.8	8.8	8.8	3.04	21.2	21.2	21.2	
-10	26.5	26.5	26.5	8.8	8.8	8.8	3.02	21.2	21.2	21.2	
-11	25.8	25.8	25.8	8.8	8.8	8.8	2.95	21.2	21.2	21.2	
-12	25.1	25.1	25.1	8.8	8.8	8.8	2.87	21.2	21.2	21.2	
-13	24.5	24.5	24.5	8.8	8.8	8.8	2.80	21.1	21.1	21.1	
-14	23.9	23.9	23.9	8.8	8.8	8.8	2.73	21.1	21.1	21.1	
-15	23.2	23.2	23.2	8.8	8.8	8.8	2.65	21.1	21.1	21.1	
-16	22.6	22.6	22.6	8.8	8.8	8.8	2.58	21.1	21.1	21.1	
-17	22.0	22.0	22.0	8.8	8.8	8.8	2.51	21.1	21.1	21.1	
-18	21.4	21.4	21.4	8.8	8.8	8.8	2.44	21.1	21.1	21.1	
-19	20.9	20.9	20.9	8.8	8.8	8.8	2.38	21.1	21.1	21.1	
-20	20.3	20.3	20.3	8.8	8.8	8.8	2.31	21.1	21.1	21.1	
-21	19.7	19.7	19.7	8.8	8.8	8.8	2.24	21.0	21.0	21.0	
-22	19.2	19.2	19.2	8.8	8.8	8.8	2.18	21.0	21.0	21.0	
-23	18.7	18.7	18.7	8.8	8.8	8.8	2.12	21.0	21.0	21.0	
-24	18.2	18.2	18.2	8.9	8.9	8.9	2.05	21.0	21.0	21.0	
-25	17.7	17.7	17.7	8.9	8.9	8.9	1.99	21.0	21.0	21.0	

* attention: operating limits not reflected in performance table

ZHI35K1P-TFD_R410A_1_AW

Th [°C]		45 °C									
Ta [°C]	Qh nom [kW]	Qh min [kW]	Qh max [kW]	Pin nom [kW]	Pin-min [kW]	Pin-max [kW]	COP kW / kW	I nom [A]	I min [A]	I max [A]	
25	57.6	57.6	57.6	11.0	11.0	11.0	5.22	22.8	22.8	22.8	
24	56.5	56.5	56.5	11.1	11.1	11.1	5.11	22.8	22.8	22.8	
23	55.5	55.5	55.5	11.1	11.1	11.1	5.01	22.8	22.8	22.8	
22	54.5	54.5	54.5	11.1	11.1	11.1	4.90	22.9	22.9	22.9	
21	53.5	53.5	53.5	11.1	11.1	11.1	4.80	22.9	22.9	22.9	
20	52.5	52.5	52.5	11.1	11.1	11.1	4.71	22.9	22.9	22.9	
19	51.5	51.5	51.5	11.2	11.2	11.2	4.61	22.9	22.9	22.9	
18	50.5	50.5	50.5	11.2	11.2	11.2	4.52	22.9	22.9	22.9	
17	49.5	49.5	49.5	11.2	11.2	11.2	4.43	22.9	22.9	22.9	
16	48.6	48.6	48.6	11.2	11.2	11.2	4.34	22.9	22.9	22.9	
15	47.6	47.6	47.6	11.2	11.2	11.2	4.26	22.9	22.9	22.9	
14	46.7	46.7	46.7	11.2	11.2	11.2	4.17	22.9	22.9	22.9	
13	45.8	45.8	45.8	11.2	11.2	11.2	4.09	22.9	22.9	22.9	
12	44.9	44.9	44.9	11.2	11.2	11.2	4.01	22.9	22.9	22.9	
11	44.0	44.0	44.0	11.2	11.2	11.2	3.93	22.9	22.9	22.9	
10	43.1	43.1	43.1	11.2	11.2	11.2	3.86	22.9	22.9	22.9	
9	41.5	41.5	41.5	11.2	11.2	11.2	3.72	22.9	22.9	22.9	
8	40.0	40.0	40.0	11.1	11.1	11.1	3.59	22.9	22.9	22.9	
7	38.6	38.6	38.6	11.1	11.1	11.1	3.47	22.8	22.8	22.8	
6	37.2	37.2	37.2	11.1	11.1	11.1	3.36	22.8	22.8	22.8	
5	36.0	36.0	36.0	11.1	11.1	11.1	3.26	22.8	22.8	22.8	
4	34.9	34.9	34.9	11.0	11.0	11.0	3.16	22.8	22.8	22.8	
3	33.9	33.9	33.9	11.0	11.0	11.0	3.07	22.7	22.7	22.7	
2	32.9	32.9	32.9	11.0	11.0	11.0	2.99	22.7	22.7	22.7	
1	32.1	32.1	32.1	11.0	11.0	11.0	2.92	22.7	22.7	22.7	
0	31.3	31.3	31.3	11.0	11.0	11.0	2.85	22.7	22.7	22.7	
-1	30.6	30.6	30.6	11.0	11.0	11.0	2.79	22.6	22.6	22.6	
-2	29.9	29.9	29.9	10.9	10.9	10.9	2.74	22.6	22.6	22.6	
-3	29.4	29.4	29.4	10.9	10.9	10.9	2.69	22.6	22.6	22.6	
-4	28.9	28.9	28.9	10.9	10.9	10.9	2.64	22.6	22.6	22.6	
-5	28.4	28.4	28.4	10.9	10.9	10.9	2.61	22.6	22.6	22.6	
-6	28.1	28.1	28.1	10.9	10.9	10.9	2.57	22.6	22.6	22.6	
-7	27.8	27.8	27.8	10.9	10.9	10.9	2.55	22.5	22.5	22.5	
-8	27.5	27.5	27.5	10.9	10.9	10.9	2.52	22.5	22.5	22.5	
-9	27.3	27.3	27.3	10.9	10.9	10.9	2.51	22.5	22.5	22.5	
-10	27.2	27.2	27.2	10.9	10.9	10.9	2.50	22.5	22.5	22.5	
-11	26.5	26.5	26.5	10.9	10.9	10.9	2.44	22.5	22.5	22.5	
-12	25.9	25.9	25.9	10.9	10.9	10.9	2.38	22.5	22.5	22.5	
-13	25.2	25.2	25.2	10.9	10.9	10.9	2.32	22.5	22.5	22.5	
-14	24.6	24.6	24.6	10.9	10.9	10.9	2.26	22.4	22.4	22.4	
-15	24.0	24.0	24.0	10.9	10.9	10.9	2.20	22.4	22.4	22.4	
-16	23.4	23.4	23.4	10.9	10.9	10.9	2.14	22.4	22.4	22.4	
-17	22.8	22.8	22.8	10.9	10.9	10.9	2.09	22.4	22.4	22.4	
-18	22.2	22.2	22.2	10.9	10.9	10.9	2.03	22.3	22.3	22.3	
-19	21.6	21.6	21.6	10.9	10.9	10.9	1.98	22.3	22.3	22.3	
-20	21.0	21.0	21.0	10.9	10.9	10.9	1.92	22.3	22.3	22.3	
-21	20.5	20.5	20.5	11.0	11.0	11.0	1.87	22.3	22.3	22.3	
-22	20.0	20.0	20.0	11.0	11.0	11.0	1.82	22.3	22.3	22.3	
-23	19.4	19.4	19.4	11.0	11.0	11.0	1.76	22.3	22.3	22.3	
-24	18.9	18.9	18.9	11.0	11.0	11.0	1.71	22.3	22.3	22.3	
-25	18.4	18.4	18.4	11.1	11.1	11.1	1.66	22.2	22.2	22.2	

* 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	57.7	57.7	57.7	14.6	14.6	14.6	3.95	26.0	26.0	26.0	
24	56.7	56.7	56.7	14.6	14.6	14.6	3.88	26.0	26.0	26.0	
23	55.7	55.7	55.7	14.6	14.6	14.6	3.82	26.0	26.0	26.0	
22	54.7	54.7	54.7	14.6	14.6	14.6	3.75	26.0	26.0	26.0	
21	53.7	53.7	53.7	14.6	14.6	14.6	3.69	26.0	26.0	26.0	
20	52.7	52.7	52.7	14.6	14.6	14.6	3.62	25.9	25.9	25.9	
19	51.8	51.8	51.8	14.5	14.5	14.5	3.56	25.9	25.9	25.9	
18	50.8	50.8	50.8	14.5	14.5	14.5	3.50	25.9	25.9	25.9	
17	49.9	49.9	49.9	14.5	14.5	14.5	3.44	25.9	25.9	25.9	
16	48.9	48.9	48.9	14.5	14.5	14.5	3.38	25.9	25.9	25.9	
15	48.0	48.0	48.0	14.5	14.5	14.5	3.32	25.8	25.8	25.8	
14	47.1	47.1	47.1	14.4	14.4	14.4	3.26	25.8	25.8	25.8	
13	46.2	46.2	46.2	14.4	14.4	14.4	3.21	25.8	25.8	25.8	
12	45.3	45.3	45.3	14.4	14.4	14.4	3.15	25.8	25.8	25.8	
11	44.5	44.5	44.5	14.4	14.4	14.4	3.10	25.7	25.7	25.7	
10	43.6	43.6	43.6	14.3	14.3	14.3	3.04	25.7	25.7	25.7	
9	42.1	42.1	42.1	14.3	14.3	14.3	2.94	25.7	25.7	25.7	
8	40.6	40.6	40.6	14.2	14.2	14.2	2.85	25.6	25.6	25.6	
7	39.2	39.2	39.2	14.2	14.2	14.2	2.77	25.5	25.5	25.5	
6	38.0	38.0	38.0	14.1	14.1	14.1	2.69	25.5	25.5	25.5	
5	36.8	36.8	36.8	14.1	14.1	14.1	2.61	25.4	25.4	25.4	
4	35.7	35.7	35.7	14.1	14.1	14.1	2.54	25.4	25.4	25.4	
3	34.7	34.7	34.7	14.0	14.0	14.0	2.47	25.4	25.4	25.4	
2	33.8	33.8	33.8	14.0	14.0	14.0	2.41	25.3	25.3	25.3	
1	32.9	32.9	32.9	14.0	14.0	14.0	2.36	25.3	25.3	25.3	
0	32.2	32.2	32.2	13.9	13.9	13.9	2.31	25.2	25.2	25.2	
-1	31.5	31.5	31.5	13.9	13.9	13.9	2.26	25.2	25.2	25.2	
-2	30.9	30.9	30.9	13.9	13.9	13.9	2.22	25.2	25.2	25.2	
-3	30.3	30.3	30.3	13.9	13.9	13.9	2.18	25.2	25.2	25.2	
-4	29.8	29.8	29.8	13.9	13.9	13.9	2.15	25.1	25.1	25.1	
-5	29.4	29.4	29.4	13.9	13.9	13.9	2.12	25.1	25.1	25.1	
-6	29.1	29.1	29.1	13.9	13.9	13.9	2.09	25.1	25.1	25.1	
-7	28.8	28.8	28.8	13.9	13.9	13.9	2.07	25.1	25.1	25.1	
-8	28.5	28.5	28.5	13.9	13.9	13.9	2.06	25.1	25.1	25.1	
-9	28.3	28.3	28.3	13.9	13.9	13.9	2.04	25.1	25.1	25.1	
-10	28.2	28.2	28.2	13.9	13.9	13.9	2.04	25.1	25.1	25.1	
-11	27.6	27.6	27.6	13.9	13.9	13.9	1.99	25.0	25.0	25.0	
-12	26.9	26.9	26.9	13.9	13.9	13.9	1.94	25.0	25.0	25.0	
-13	26.3	26.3	26.3	13.9	13.9	13.9	1.90	25.0	25.0	25.0	
-14	25.7	25.7	25.7	13.9	13.9	13.9	1.85	25.0	25.0	25.0	
-15	25.1	25.1	25.1	13.9	13.9	13.9	1.81	24.9	24.9	24.9	
-16	24.5	24.5	24.5	13.9	13.9	13.9	1.76	24.9	24.9	24.9	
-17	23.9	23.9	23.9	13.9	13.9	13.9	1.72	24.9	24.9	24.9	
-18	23.4	23.4	23.4	13.9	13.9	13.9	1.68	24.9	24.9	24.9	
-19	22.8	22.8	22.8	13.9	13.9	13.9	1.64	24.9	24.9	24.9	
-20	22.3	22.3	22.3	14.0	14.0	14.0	1.59	24.8	24.8	24.8	
-21	21.7	21.7	21.7	14.0	14.0	14.0	1.55	24.8	24.8	24.8	
-22	21.2	21.2	21.2	14.0	14.0	14.0	1.51	24.8	24.8	24.8	
-23	20.7	20.7	20.7	14.1	14.1	14.1	1.47	24.8	24.8	24.8	
-24	20.2	20.2	20.2	14.1	14.1	14.1	1.43	24.8	24.8	24.8	
-25	19.7	19.7	19.7	14.2	14.2	14.2	1.39	24.8	24.8	24.8	

* 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	57.9	57.9	57.9	19.2	19.2	19.2	3.02	31.4	31.4	31.4	
24	56.9	56.9	56.9	19.2	19.2	19.2	2.97	31.4	31.4	31.4	
23	56.0	56.0	56.0	19.1	19.1	19.1	2.93	31.4	31.4	31.4	
22	55.0	55.0	55.0	19.1	19.1	19.1	2.88	31.3	31.3	31.3	
21	54.1	54.1	54.1	19.1	19.1	19.1	2.84	31.3	31.3	31.3	
20	53.2	53.2	53.2	19.0	19.0	19.0	2.80	31.3	31.3	31.3	
19	52.3	52.3	52.3	19.0	19.0	19.0	2.75	31.2	31.2	31.2	
18	51.4	51.4	51.4	18.9	18.9	18.9	2.71	31.2	31.2	31.2	
17	50.5	50.5	50.5	18.9	18.9	18.9	2.67	31.2	31.2	31.2	
16	49.6	49.6	49.6	18.9	18.9	18.9	2.63	31.1	31.1	31.1	
15	48.7	48.7	48.7	18.8	18.8	18.8	2.59	31.1	31.1	31.1	
14	47.9	47.9	47.9	18.8	18.8	18.8	2.55	31.0	31.0	31.0	
13	47.0	47.0	47.0	18.7	18.7	18.7	2.51	31.0	31.0	31.0	
12	46.2	46.2	46.2	18.7	18.7	18.7	2.47	31.0	31.0	31.0	
11	45.3	45.3	45.3	18.6	18.6	18.6	2.43	30.9	30.9	30.9	
10	44.5	44.5	44.5	18.6	18.6	18.6	2.39	30.9	30.9	30.9	
9	43.0	43.0	43.0	18.5	18.5	18.5	2.32	30.8	30.8	30.8	
8	41.7	41.7	41.7	18.4	18.4	18.4	2.26	30.7	30.7	30.7	
7	40.4	40.4	40.4	18.4	18.4	18.4	2.20	30.7	30.7	30.7	
6	39.1	39.1	39.1	18.3	18.3	18.3	2.14	30.6	30.6	30.6	
5	38.0	38.0	38.0	18.3	18.3	18.3	2.08	30.5	30.5	30.5	
4	37.0	37.0	37.0	18.2	18.2	18.2	2.03	30.5	30.5	30.5	
3	36.0	36.0	36.0	18.2	18.2	18.2	1.98	30.4	30.4	30.4	
2	35.2	35.2	35.2	18.1	18.1	18.1	1.94	30.4	30.4	30.4	
1	34.4	34.4	34.4	18.1	18.1	18.1	1.90	30.3	30.3	30.3	
0	33.7	33.7	33.7	18.1	18.1	18.1	1.86	30.3	30.3	30.3	
-1	33.0	33.0	33.0	18.1	18.1	18.1	1.83	30.3	30.3	30.3	
-2	32.4	32.4	32.4	18.0	18.0	18.0	1.80	30.2	30.2	30.2	
-3	31.9	31.9	31.9	18.0	18.0	18.0	1.77	30.2	30.2	30.2	
-4	31.4	31.4	31.4	18.0	18.0	18.0	1.74	30.2	30.2	30.2	
-5	31.0	31.0	31.0	18.0	18.0	18.0	1.72	30.2	30.2	30.2	
-6	30.7	30.7	30.7	18.0	18.0	18.0	1.71	30.2	30.2	30.2	
-7	30.4	30.4	30.4	18.0	18.0	18.0	1.69	30.2	30.2	30.2	
-8	30.2	30.2	30.2	18.0	18.0	18.0	1.68	30.1	30.1	30.1	
-9	30.0	30.0	30.0	18.0	18.0	18.0	1.67	30.1	30.1	30.1	
-10	29.9	29.9	29.9	18.0	18.0	18.0	1.66	30.1	30.1	30.1	
-11	29.3	29.3	29.3	18.0	18.0	18.0	1.63	30.1	30.1	30.1	
-12	28.7	28.7	28.7	18.0	18.0	18.0	1.59	30.1	30.1	30.1	
-13	28.1	28.1	28.1	18.0	18.0	18.0	1.56	30.1	30.1	30.1	
-14	27.5	27.5	27.5	18.0	18.0	18.0	1.53	30.1	30.1	30.1	
-15	26.9	26.9	26.9	18.0	18.0	18.0	1.49	30.0	30.0	30.0	
-16											
-17											
-18											
-19											
-20											
-21											
-22											
-23											
-24											
-25											

* attention: operating limits not reflected in performance table

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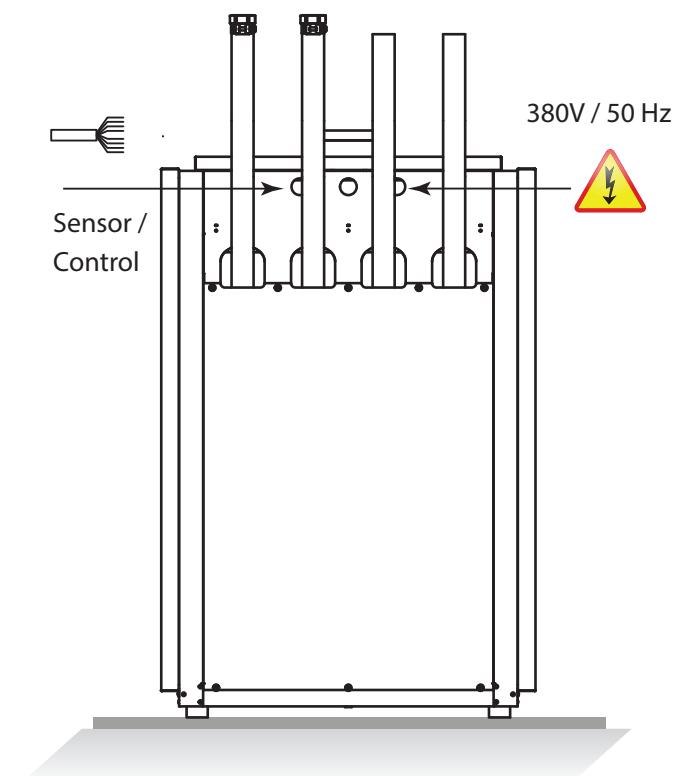
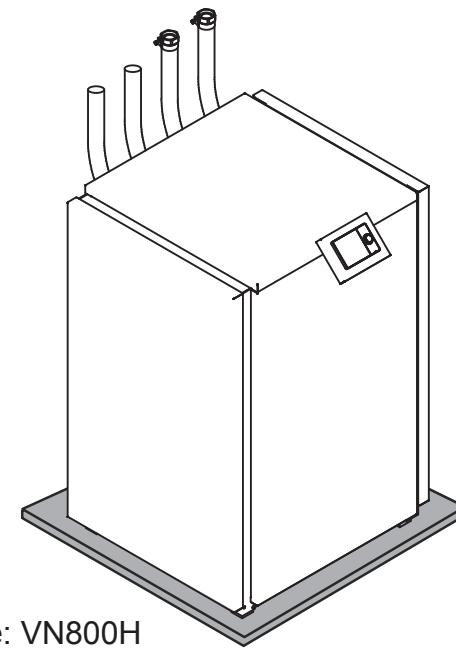
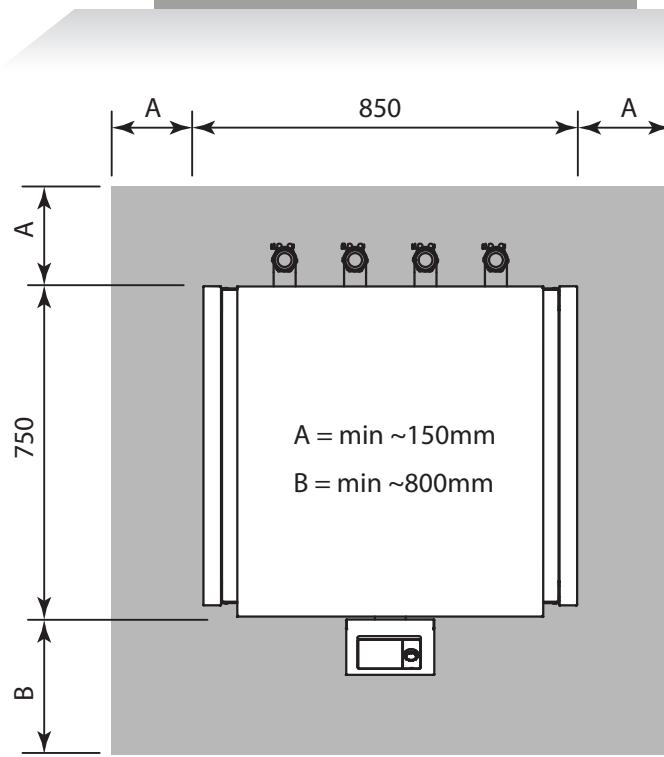
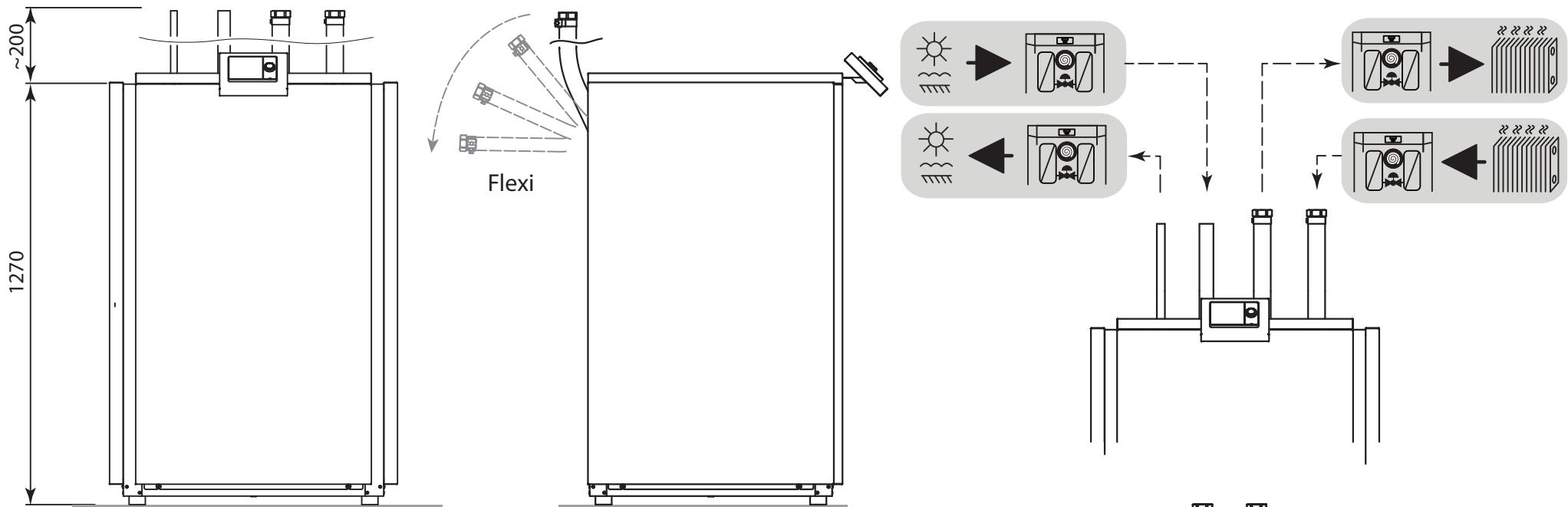
Tc [°C]			W 12 / 7 °C								
Ta [°C]	Qc nom [kW]	Qc min [kW]	Qc max [kW]	Pin [kW]	Pin min [kW]	Pin max [kW]	EER kW / kW	I nom [A]	I min [A]	I max [A]	
40	27.0	27.0	27.0	11.9	11.9	11.9	2.26	23.4	23.4	23.4	
39	27.2	27.2	27.2	11.6	11.6	11.6	2.34	23.2	23.2	23.2	
38	27.3	27.3	27.3	11.4	11.4	11.4	2.41	23.0	23.0	23.0	
37	27.5	27.5	27.5	11.1	11.1	11.1	2.48	22.8	22.8	22.8	
36	27.7	27.7	27.7	10.8	10.8	10.8	2.56	22.6	22.6	22.6	
35	27.8	27.8	27.8	10.6	10.6	10.6	2.63	22.5	22.5	22.5	
34	28.0	28.0	28.0	10.3	10.3	10.3	2.71	22.3	22.3	22.3	
33	28.1	28.1	28.1	10.1	10.1	10.1	2.79	22.1	22.1	22.1	
32	28.3	28.3	28.3	9.9	9.9	9.9	2.87	22.0	22.0	22.0	
31	28.4	28.4	28.4	9.7	9.7	9.7	2.95	21.8	21.8	21.8	
30	28.6	28.6	28.6	9.4	9.4	9.4	3.03	21.7	21.7	21.7	
29	28.7	28.7	28.7	9.2	9.2	9.2	3.11	21.5	21.5	21.5	
28	28.8	28.8	28.8	9.0	9.0	9.0	3.20	21.4	21.4	21.4	
27	28.9	28.9	28.9	8.8	8.8	8.8	3.28	21.2	21.2	21.2	
26	29.0	29.0	29.0	8.6	8.6	8.6	3.37	21.1	21.1	21.1	
25	29.1	29.1	29.1	8.4	8.4	8.4	3.46	20.9	20.9	20.9	
24	29.2	29.2	29.2	8.2	8.2	8.2	3.55	20.7	20.7	20.7	
23	29.3	29.3	29.3	8.0	8.0	8.0	3.64	20.6	20.6	20.6	
22	29.4	29.4	29.4	7.9	7.9	7.9	3.74	20.4	20.4	20.4	
21	29.5	29.5	29.5	7.7	7.7	7.7	3.83	20.2	20.2	20.2	
20	29.5	29.5	29.5	7.5	7.5	7.5	3.93	20.0	20.0	20.0	
19	29.6	29.6	29.6	7.3	7.3	7.3	4.04	19.8	19.8	19.8	
18	29.7	29.7	29.7	7.2	7.2	7.2	4.14	19.6	19.6	19.6	
17	29.7	29.7	29.7	7.0	7.0	7.0	4.25	19.4	19.4	19.4	

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	36.3	36.3	36.3	11.9	11.9	11.9	3.05	23.6	23.6	23.6	
39	36.6	36.6	36.6	11.6	11.6	11.6	3.14	23.4	23.4	23.4	
38	36.8	36.8	36.8	11.4	11.4	11.4	3.24	23.1	23.1	23.1	
37	37.0	37.0	37.0	11.1	11.1	11.1	3.34	22.9	22.9	22.9	
36	37.2	37.2	37.2	10.8	10.8	10.8	3.44	22.7	22.7	22.7	
35	37.4	37.4	37.4	10.6	10.6	10.6	3.54	22.5	22.5	22.5	
34	37.6	37.6	37.6	10.3	10.3	10.3	3.64	22.3	22.3	22.3	
33	37.8	37.8	37.8	10.1	10.1	10.1	3.74	22.1	22.1	22.1	
32	38.0	38.0	38.0	9.9	9.9	9.9	3.85	21.9	21.9	21.9	
31	38.1	38.1	38.1	9.7	9.7	9.7	3.95	21.7	21.7	21.7	
30	38.3	38.3	38.3	9.4	9.4	9.4	4.06	21.6	21.6	21.6	
29	38.5	38.5	38.5	9.2	9.2	9.2	4.17	21.4	21.4	21.4	
28	38.6	38.6	38.6	9.0	9.0	9.0	4.28	21.2	21.2	21.2	
27	38.8	38.8	38.8	8.8	8.8	8.8	4.40	21.0	21.0	21.0	
26	38.9	38.9	38.9	8.6	8.6	8.6	4.51	20.8	20.8	20.8	
25	39.0	39.0	39.0	8.4	8.4	8.4	4.63	20.6	20.6	20.6	
24	39.1	39.1	39.1	8.2	8.2	8.2	4.75	20.4	20.4	20.4	
23	39.3	39.3	39.3	8.0	8.0	8.0	4.88	20.2	20.2	20.2	
22	39.4	39.4	39.4	7.9	7.9	7.9	5.00	20.0	20.0	20.0	
21	39.5	39.5	39.5	7.7	7.7	7.7	5.13	19.8	19.8	19.8	
20	39.6	39.6	39.6	7.5	7.5	7.5	5.27	19.5	19.5	19.5	
19	39.6	39.6	39.6	7.3	7.3	7.3	5.40	19.3	19.3	19.3	
18	39.7	39.7	39.7	7.2	7.2	7.2	5.55	19.0	19.0	19.0	
17	39.8	39.8	39.8	7.0	7.0	7.0	5.69	18.8	18.8	18.8	

* 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



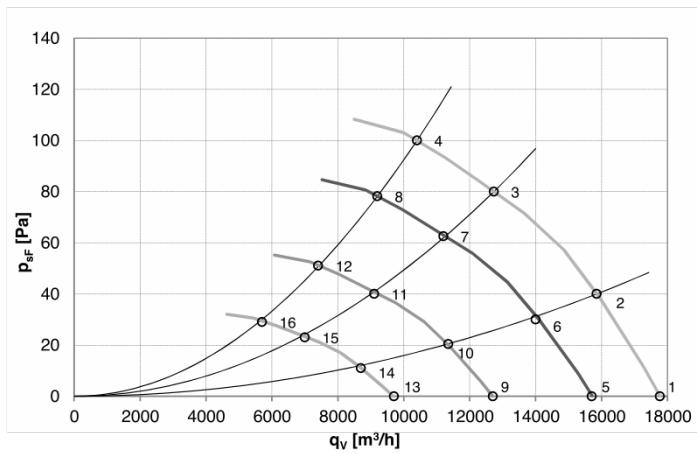
WAMAK AW 35 EVI - Split unit variant: VOV-900



Enclosure type: VOV-900		Evaporator	
Article	WAVV0900	Type	Cu-coil /Al-fin "
Basic dimensions	Height [mm]	1320	Port size
	Width [mm]	1390	Heat transfer medium
	Length [mm]	1150	Volume flow - Air [m ³ /h]
Weight [kg]	210	Internal pressure drop - Air [kPa]	0.027
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

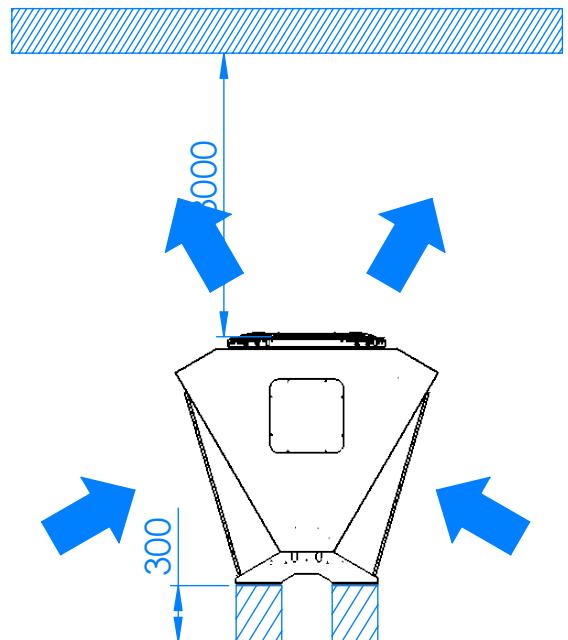
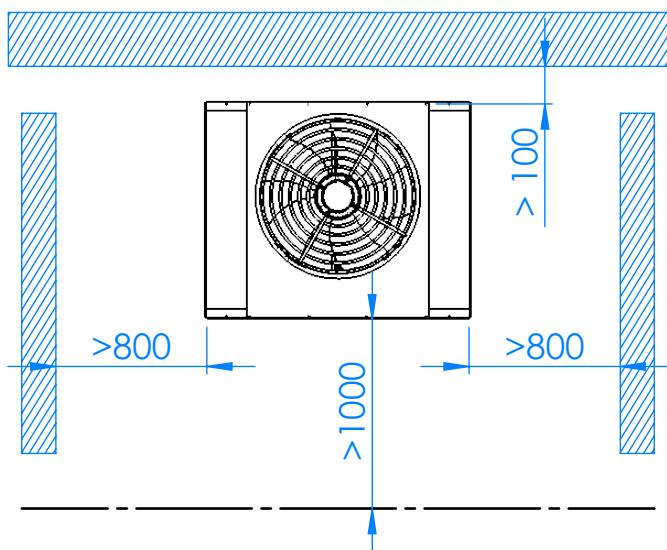
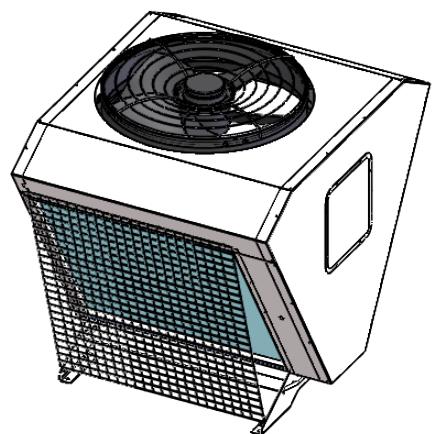
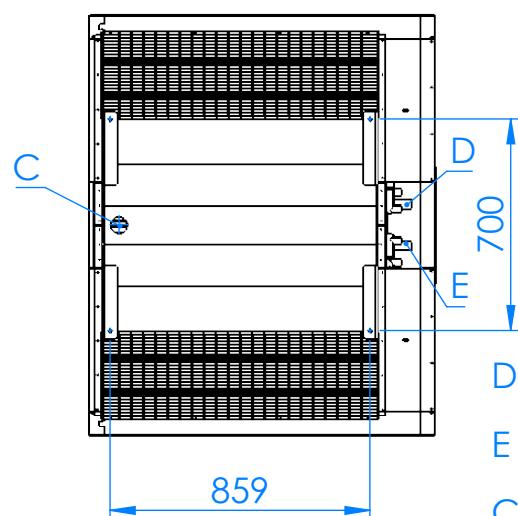
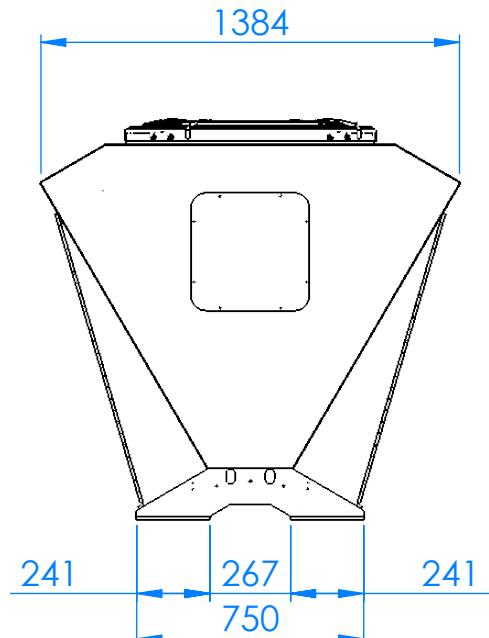
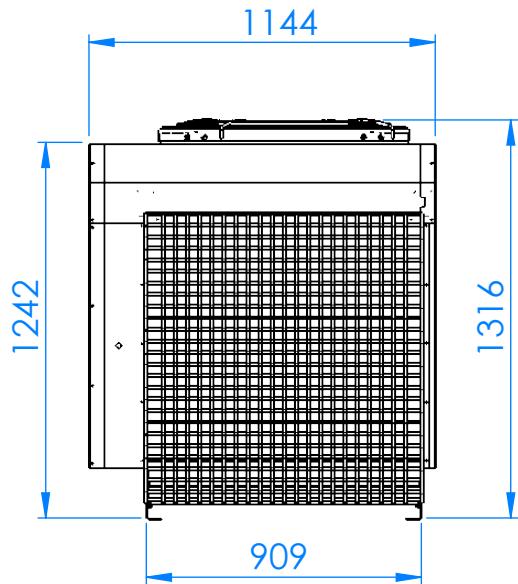
Acoustic power Lw													
		1	5	10	15	1	5	10	15	1	5	10	15
Distance [m]	Acoustic pressure Lp [dB(A)]	59.1	45.1	39.1	35.6	62.1	48.1	42.1	38.6	56.1	42.1	36.1	32.6
Distance [m]	Acoustic power Lw [dB(A)]	64.1											

EC Fan 800mm

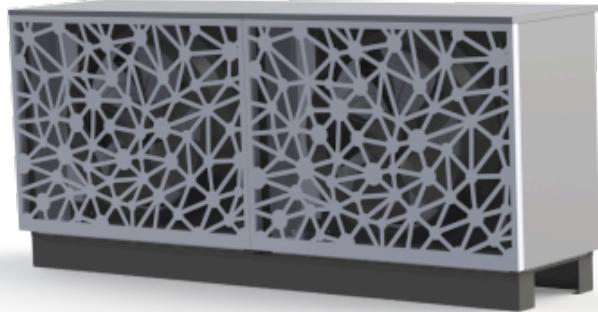


	U [V]	f [Hz]	n [RPM]	q_v [m ³ /h]	p_F [Pa]	P_e [W]	I [A]	L_wA out [dB (A)]	T_a max [°C]
1	400	50	735	17770	0	503	0,85	70	60
2	400	50	735	15850	40	612	1,02	66	60
3	400	50	735	12730	80	735	1,18	65	60
4	400	50	735	10400	100	802	1,36	68	60
5	400	50	650	15700	0	348	0,68	67	60
6	400	50	650	14000	30	421	0,80	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 35 EVI



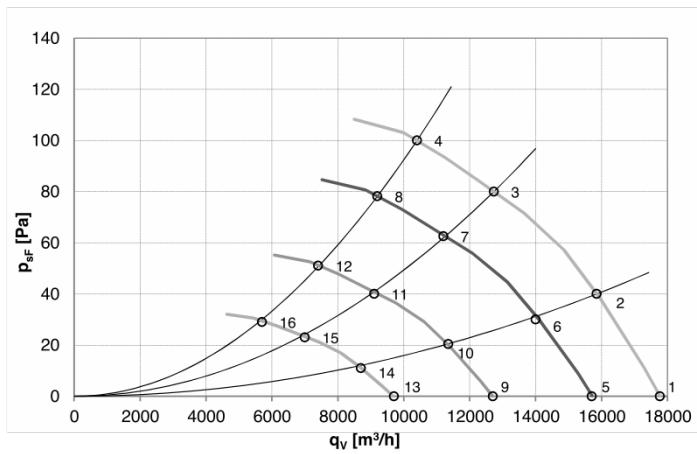
WAMAK AW 35 EVI - Split unit variant: VOII-1200-2LOW



Enclosure type: VOII-1200-2LOW		Evaporator	
Article	WAVII12L	Type	Cu-coil /Al-fin "
Basic dimensions	Height [mm]	1240	Port size
	Width [mm]	2850	Air
	Length [mm]	710	Volume flow - Air [m ³ /h]
Weight [kg]	300	Internal pressure drop - Air [kPa]	0.027
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

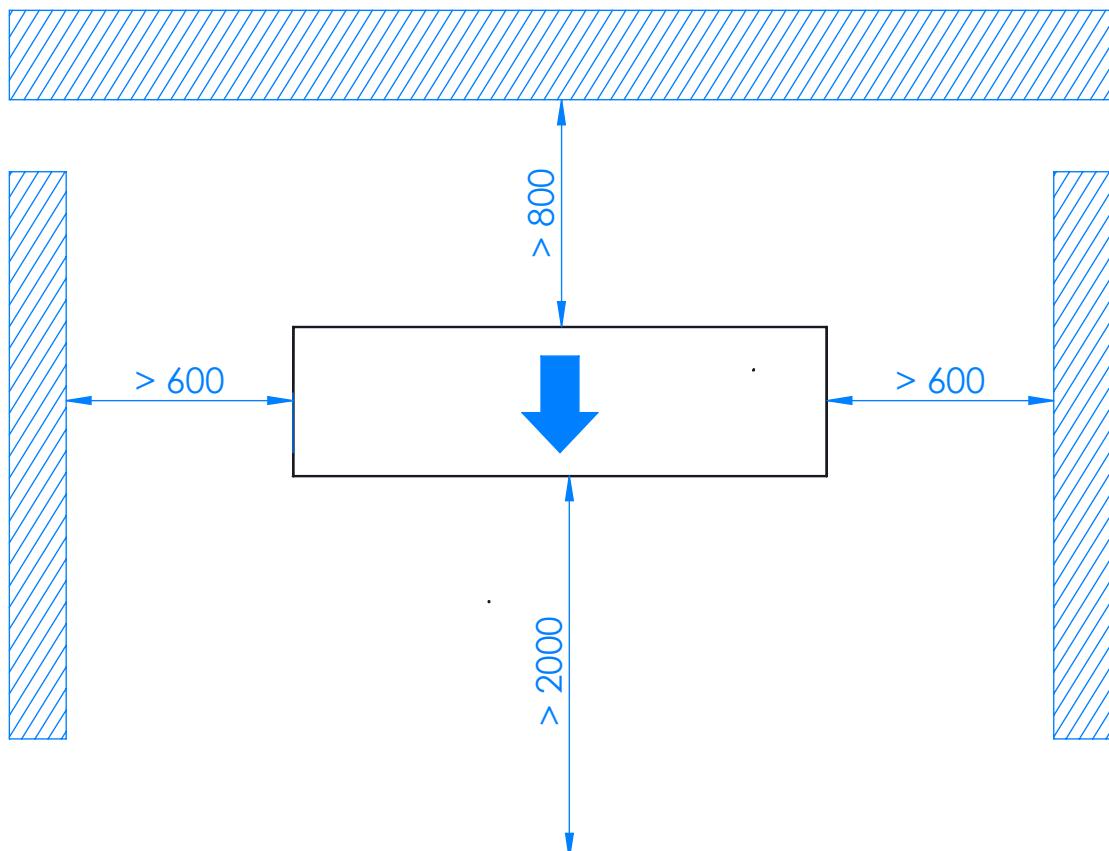
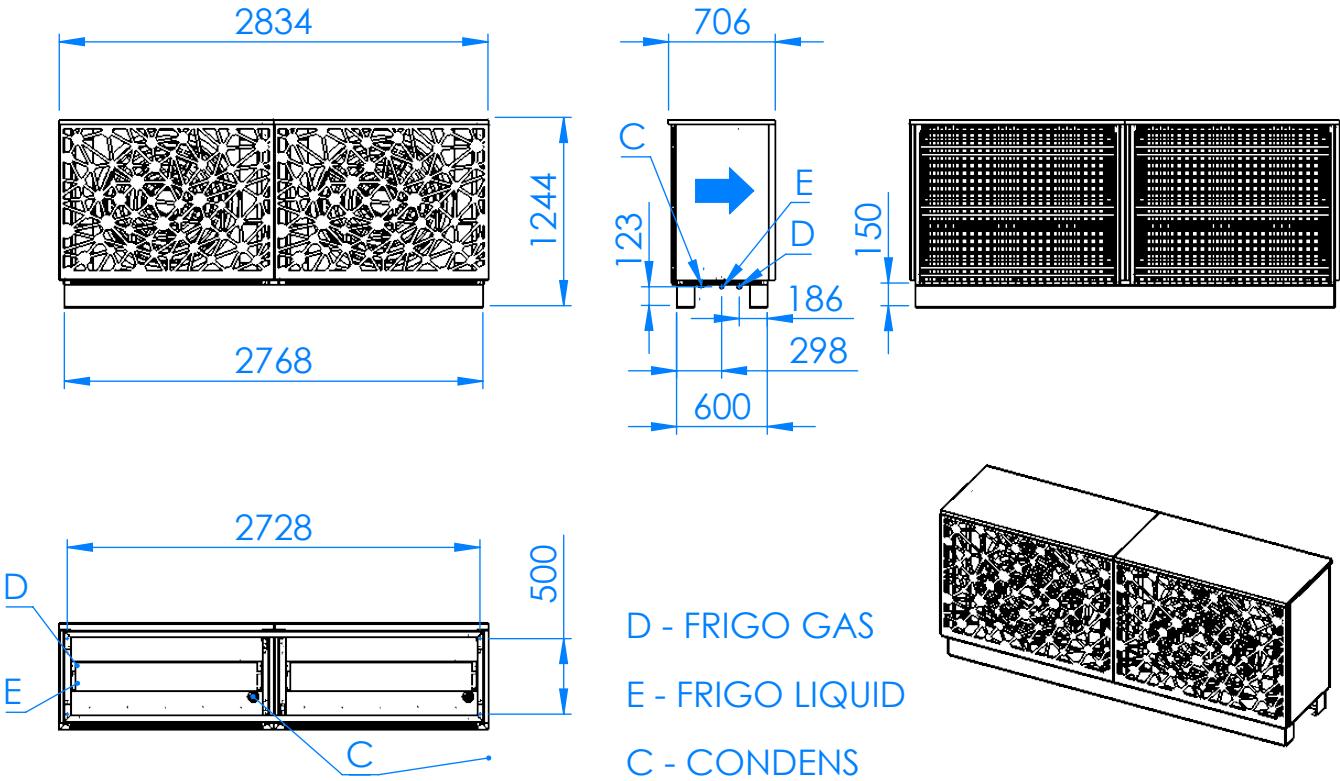
Acoustic power Lw														
		Distance [m]	1	5	10	15	1	5	10	15	1	5	10	15
59.7 dB(A)		54.7	40.7	34.7	31.2	57.7	43.7	37.7	34.2	51.7	37.7	31.7	28.2	

EC Fan 800mm

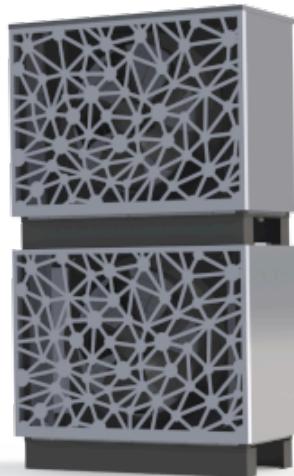


	U [V]	f [Hz]	n [RPM]	q _v [m ³ /h]	p _{sF} [Pa]	P _e [W]	I [A]	L _{wA out} [dB (A)]	T _{a max} [°C]
1	400	50	735	17770	0	503	0,85	70	60
2	400	50	735	15850	40	612	1,02	66	60
3	400	50	735	12730	80	735	1,18	65	60
4	400	50	735	10400	100	802	1,36	68	60
5	400	50	650	15700	0	348	0,68	67	60
6	400	50	650	14000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

WAMAK AW 35 EVI



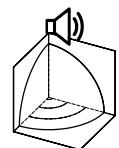
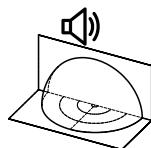
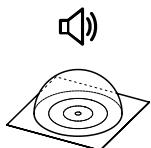
WAMAK AW 35 EVI - Split unit variant: VOII-1200-2HIGH



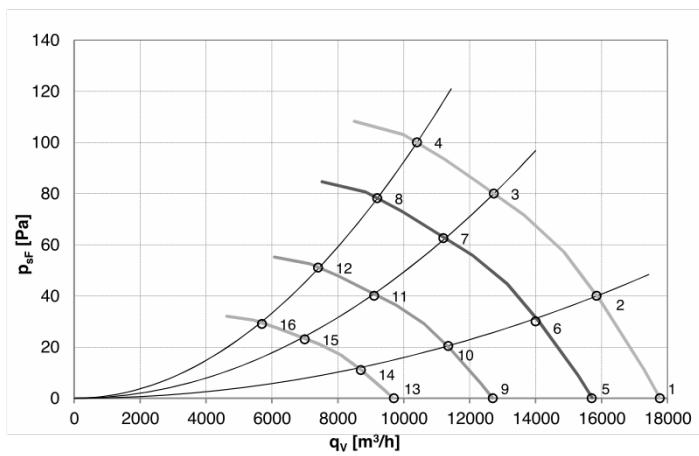
Enclosure type: VOII-1200-2HIGH		Evaporator	
Article	WAVII12H	Type	Cu-coil /Al-fin "
Basic dimensions	Height [mm]	2450	Port size
	Width [mm]	1420	Air transfer medium
	Length [mm]	710	Volume flow - Air [m ³ /h]
Weight [kg]	300	Internal pressure drop - Air [kPa]	0.027
Colour	Gray	Temperature difference - 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											
59.7 dB(A)		1	5	10	15	1	5	10	15		
Distance [m]		54.7	40.7	34.7	31.2	57.7	43.7	37.7	34.2		
Acoustic pressure Lp [dB(A)]		1	5	10	15	1	5	10	15		
1	5	10	15	1	5	10	15	1	5	10	15

Acoustic power Lw

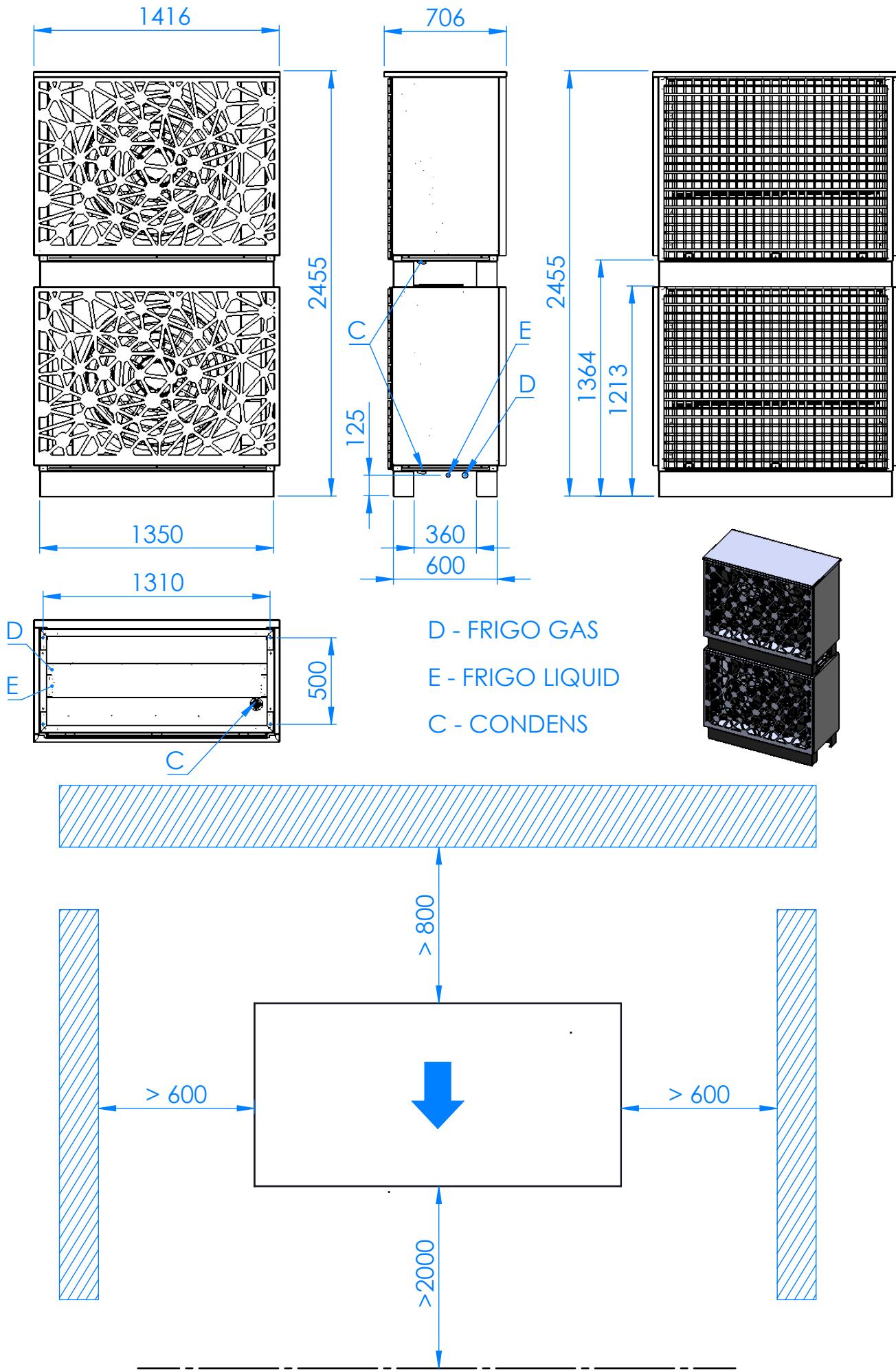


EC Fan 800mm

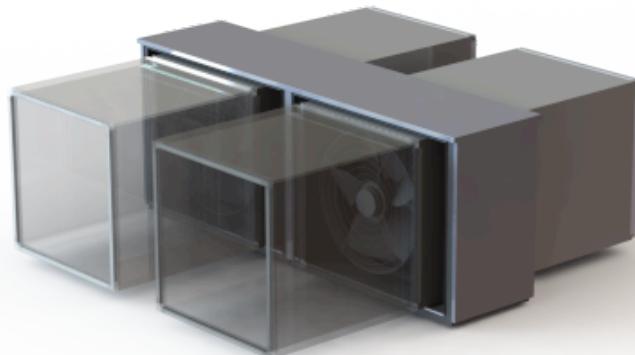


	U [V]	f [Hz]	n [RPM]	q _v [m ³ /h]	p _{sF} [Pa]	P _e [W]	I [A]	L _{wA} out [dB (A)]	T _a max [°C]
1	400	50	735	17770	0	503	0,85	70	60
2	400	50	735	15850	40	612	1,02	66	60
3	400	50	735	12730	80	735	1,18	65	60
4	400	50	735	10400	100	802	1,36	68	60
5	400	50	650	15700	0	348	0,68	67	60
6	400	50	650	14000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

WAMAK AW 35 EVI



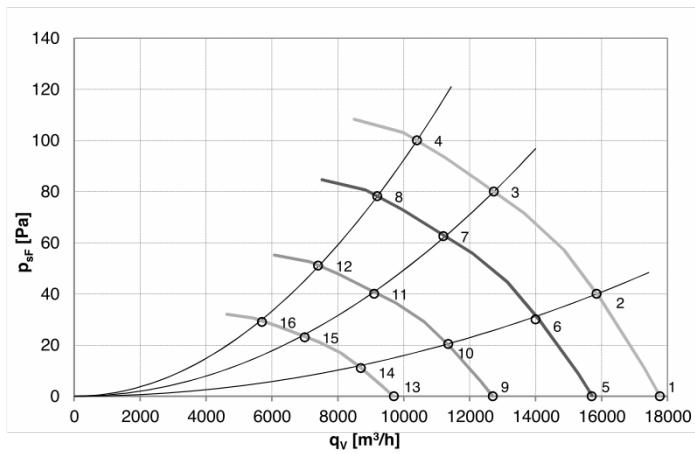
WAMAK AW 35 EVI - Split unit variant: VOII-1200-2LOW-DUCT



Enclosure type: VOII-1200-2LOW-DUCT		Evaporator	
Article	WAVID12L	Type	Cu-coil /Al-fin "
Basic dimensions	Height [mm]	1240	Port size
	Width [mm]	2850	Air
	Length [mm]	710	Volume flow - Air [m ³ /h]
Weight [kg]	300	Internal pressure drop - Air [kPa]	0.027
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													
		1	5	10	15	1	5	10	15	1	5	10	15
Distance [m]	59.7 dB(A)	54.7	40.7	34.7	31.2	57.7	43.7	37.7	34.2	51.7	37.7	31.7	28.2

EC Fan 800mm



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

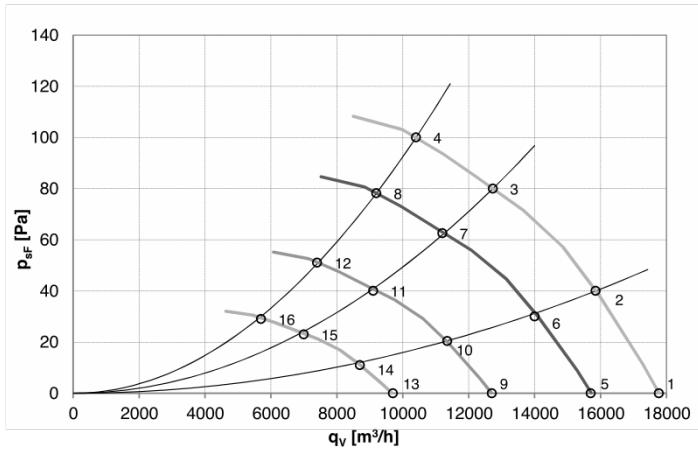
WAMAK AW 35 EVI - Split unit variant: VOII-1200-2HIGH-DUCT



Enclosure type: VOII-1200-2HIGH-DUCT

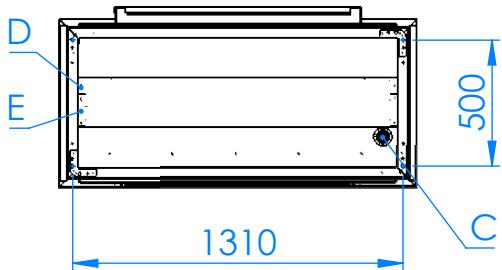
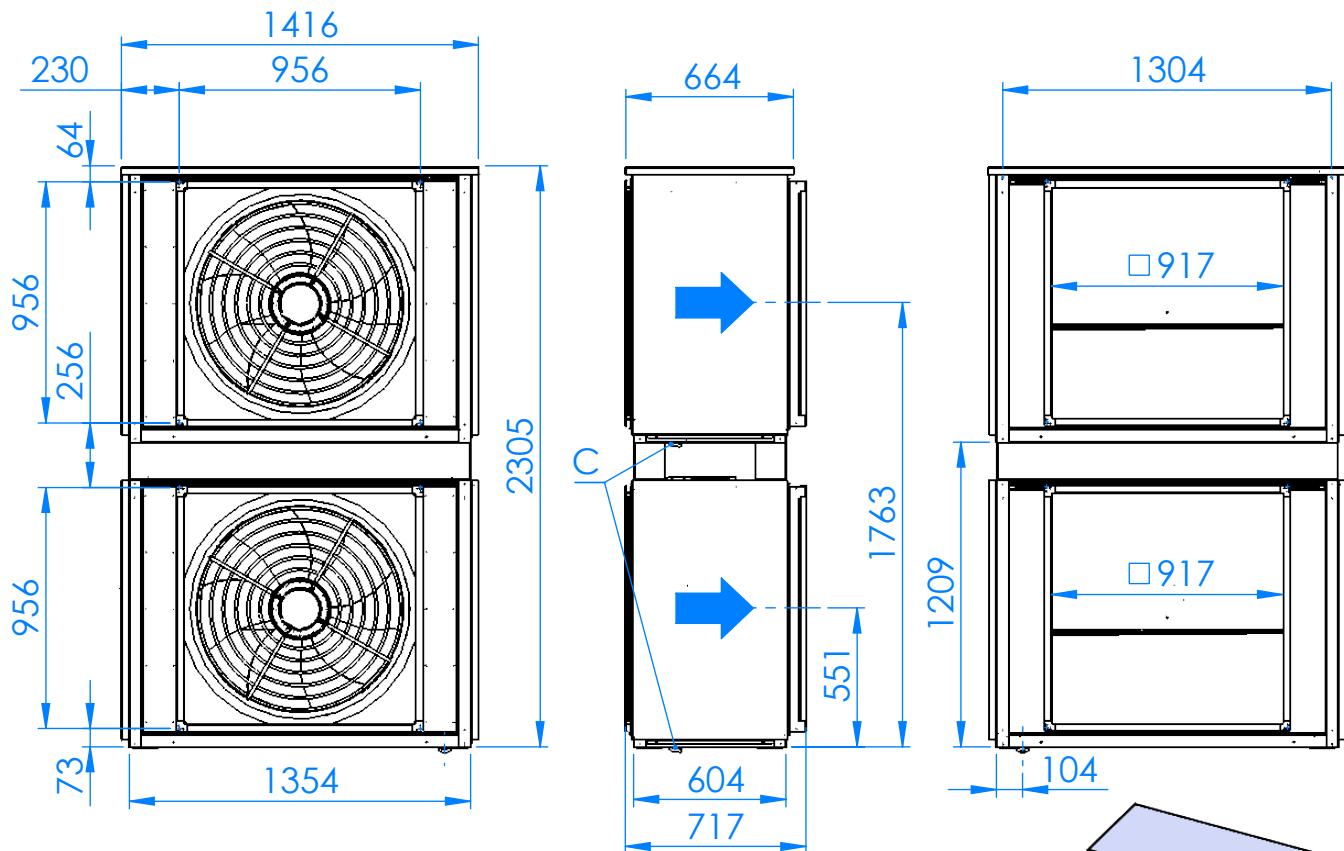
Article		WAVID12H		Evaporator	
Basic dimensions		Height [mm]	2450	Type	Cu-coil /Al-fin "
		Width [mm]	1420	Port size	5/8" - 1.1/8" "
		Length [mm]	710	Heat transfer medium	Air
Weight [kg]		300		Volume flow - Air [m ³ /h]	11650
Colour		Gray		Internal pressure drop - Air [kPa]	0.027
Enclosure IP Class		IP44		Temperature difference - Air	7 K
Fan		800 mm		Expansion valve	EEV
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		59.7 dB(A)			
Distance [m]		1	5	10	15
Acoustic pressure Lp [dB(A)]		54.7	40.7	34.7	31.2
		1	5	10	15
		57.7	43.7	37.7	34.2
		1	5	10	15
		51.7	37.7	31.7	28.2

EC Fan 800mm



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

WAMAK AW 35 EVI



D - FRIGO GAS

E - FRIGO LIQUID

C - CONDENS

