



WAMAK

Heat pump



AWK 35 EVI

WAMAK AWK 35 EVI

Product description

Compact heat pump for heating, cooling and domestic hot water designed for outdoor installation. A short closed refrigerant circuit with a silent Scroll compressor located in front of the low-height fan simplifies installation and aids long-term stable operation. Features include a double V-shaped heat exchanger, full stainless steel enclosure and robust frame construction.

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.

Outdoor monoblock

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 - (with accessory)
- DHW circulation control - (with accessory)
- DHW temperature sensor - (with accessory)
- Cascade control - (with accessory)
- Body parts and frame made of fully stainless steel sheet
- 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 - (with accessory)
- DHW switching control - (with accessory)
- Outdoor temperature sensor - (with accessory)
- Buffer temperature sensor - (with accessory)
- Modbus connection - (with accessory)
- Solid frame structure

Basic performance data - WAMAK AWK 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)	65.9
Acoustic pressure - Lp	1 m dB(A)	57.9
	5 m dB(A)	43.9
	10 m dB(A)	37.9
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	540 kg	

Main technical data - WAMAK AWK 35 EVI

Enclosure type			Heat energy rejection side data			
Basic dimensions	Height [mm]	1250	Operating limit temperatures heating	MAX [°C]	65	
	Width [mm]	1380		MIN [°C]	25	
	Length [mm]	1780	for more see operating limits diagram			
Weight [kg]	540		Condenser	Port size	2 "	
Colour	Inox			Type	BPHE	
Enclosure IP Class	IP44			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	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]	21.23		Volume flow - Air [m³/h]	11650	
	maximal [A]	32.50		Internal pressure drop - Air [kPa]	0.027	
	starting [A]	49.7		Temperature difference - Air	7 K	
Softstart	-			Number of fans	1	
Main safety	C32			Fan diameter [mm]	800	
Control System						
Main controller	SIEMENS	RVS 21 AVS 55.199				
Extension module	AVS75.3xx	AVS75.3xx	AVS75.372			
Bus Clip-In	LPB OCI346		Modbus OCI352			
Online connection	Web server OZW672		ToSyMo			
Superheat controller	1 - EEV H/C					
*** with accessory						

WAMAK AWK 35 EVI

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

Model	AWK 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	---	dB				
outdoors	Lwa	66	dB				

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

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

Model	AWK 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	---	dB				
outdoors	Lwa	66	dB				

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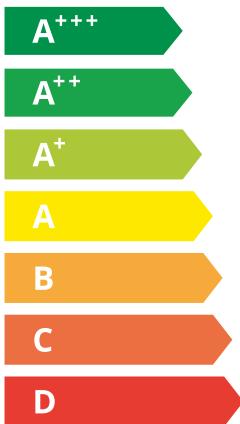
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AWK 35 EVI



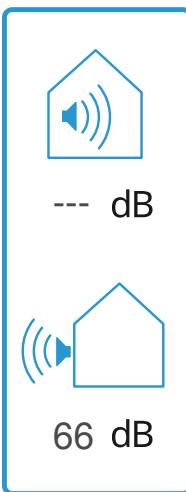
55 °C

35 °C

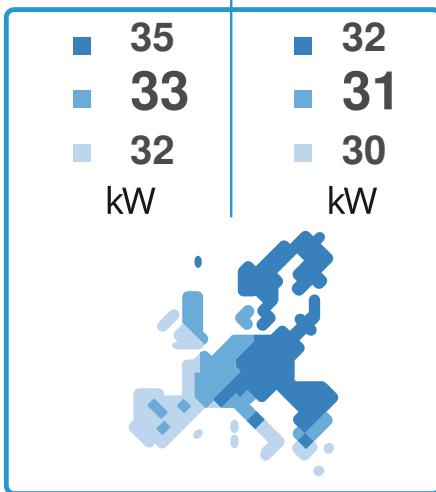


← A++

A+++



2019



811/2013

AWK 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

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

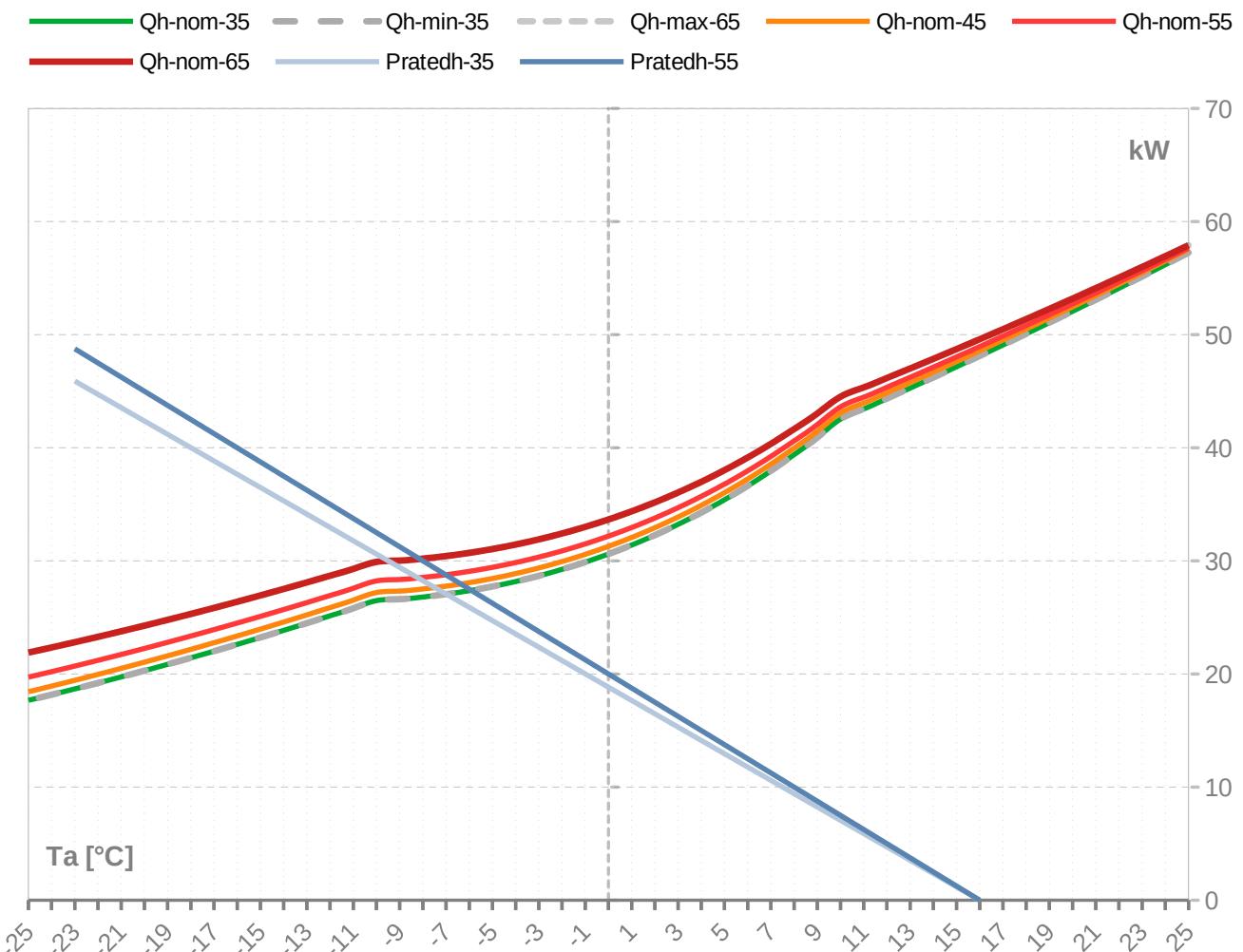
Operating conditions		Qc	P	EER
A	A35 / W23-18	37.4	10.6	3.54
B	A30 / W23-18	38.3	8.7	4.06
C	A25 / W23-18	39.0	7.6	4.63
D	A20 / W23-18	39.6	6.7	5.27

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

WAMAK AWK 35 EVI

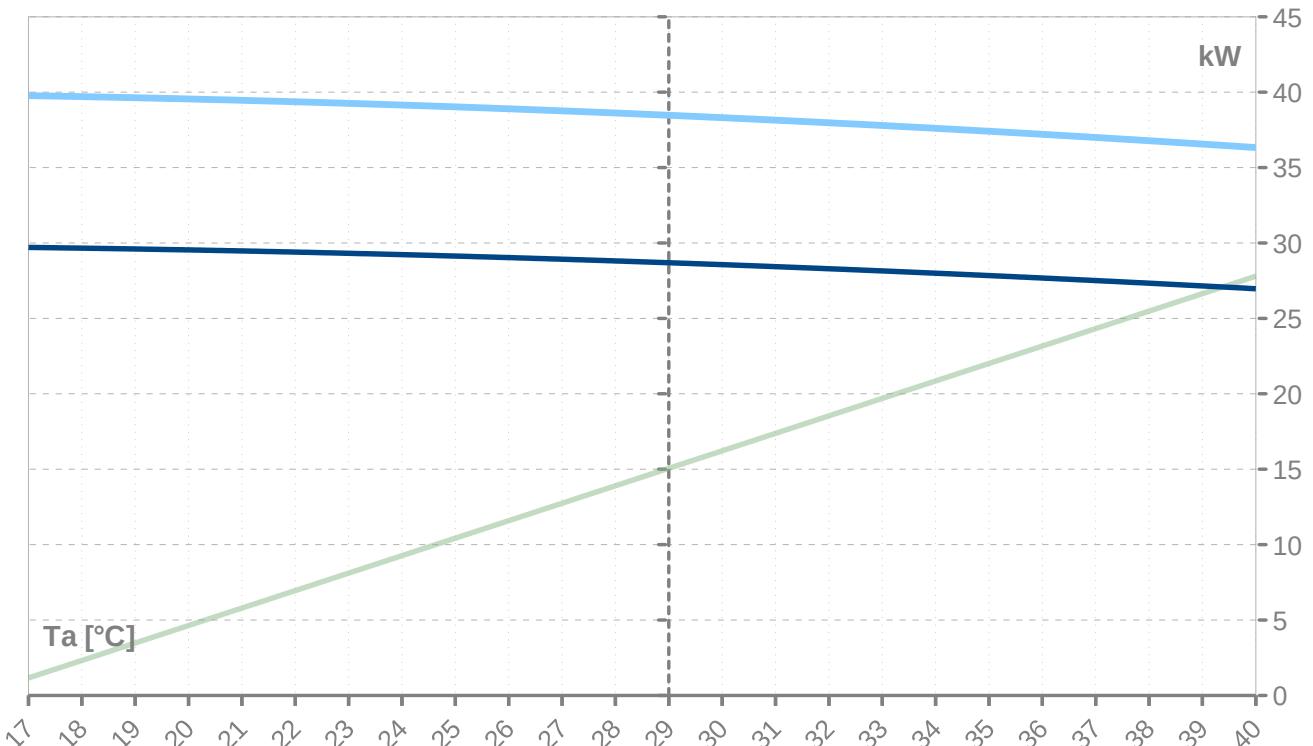
Performance lines - heating

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

Ta [°C]	45 °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

WAMAK AWK 35 EVI

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

WAMAK AWK 35 EVI

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

WAMAK AWK 35 EVI

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	

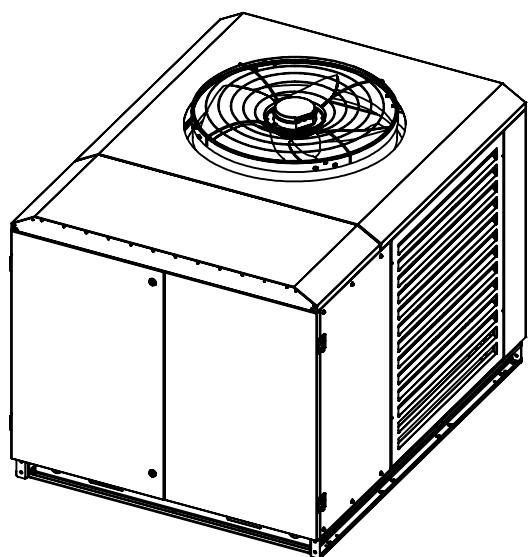
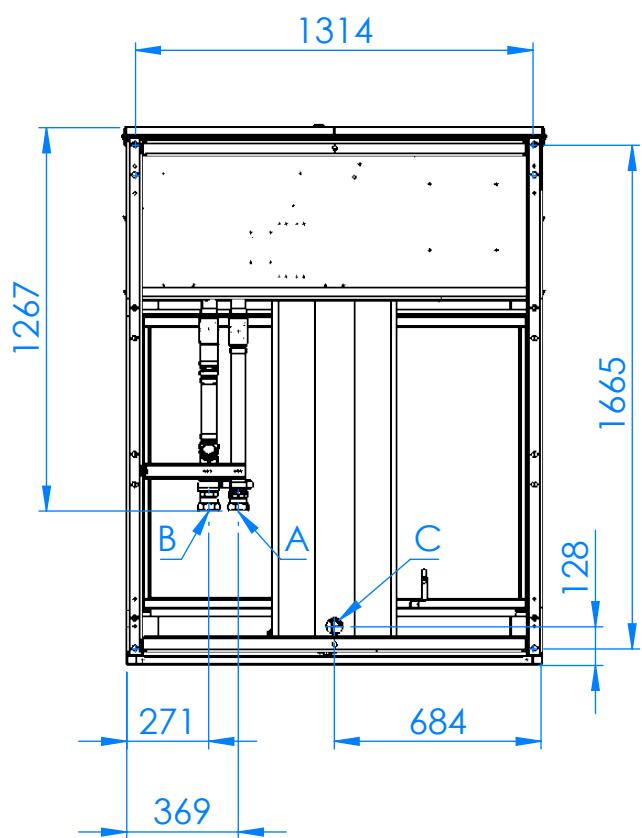
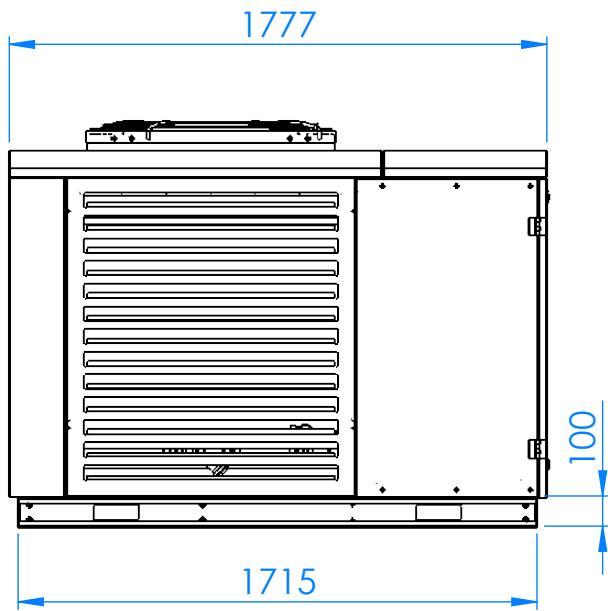
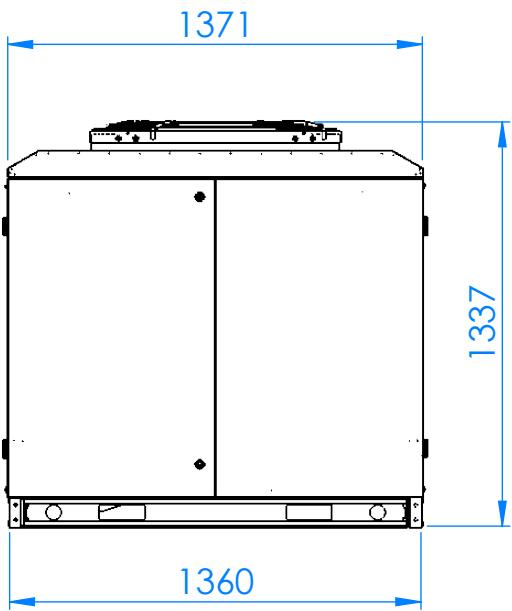
Tc [°C]			W 23 / 18 °C								
Ta [°C]	Qc [kW]	Qh-min [kW]	Qh-max [kW]	Pin [kW]	Pin-min [kW]	Pin-max [kW]	EER kW / kW	I [A]	I-min [A]	I-max [A]	
40	36.3	36.3	36.3	11.9	11.9	11.9	3.05	23.6	23.6	23.6	
39	36.6	36.6	36.6	11.6	11.6	11.6	3.14	23.4	23.4	23.4	
38	36.8	36.8	36.8	11.4	11.4	11.4	3.24	23.1	23.1	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 AWK 35 EVI



A -
B -
C - Condens

