



**WAMAK**

## Heat pump



**AWK 47 EVI**

# WAMAK AWK 47 EVI

## Product description

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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

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

## Basic performance data - WAMAK AWK 47 EVI

Heating - EN 14511		
<b>Heating capacity [kW]</b>	A7 / W35	49.1
	A2 / W35	41.7
	A-7 / W34	35.0
<b>Electrical power input [kW]</b>	A7 / W35	11.4
	A2 / W35	11.4
	A-7 / W34	11.0
<b>Heating efficiency faktor [COP]</b>	A7 / W35	4.31
	A2 / W35	3.67
	A-7 / W34	3.17
Seasonal space heating energy efficiency - SCOP EN 14825		
Average Climate / Low Temperature [35°C]	SCOP	4.17
	η [ % ]	166.9
	Label	A+++
	Qhe [ kWh ]	82020.2
	Pdesignh [ kW ]	39.7
	Tbivalent [ °C ]	-7
Cooling		
<b>Cooling capacity - [kW]</b>	A35 / W23-18	48.4
	A25 / W23-18	50.9
	A35 / W12-7	36.4
	A25 / W12-7	36.4
Seasonal space cooling energy efficiency - SEER EN 14825		
[ W 23 / 18°C ]	SEER	4.46
	Qce [ kWh ]	21840.0
	ηc [ % ]	178.6
Sound EN 12102		
<b>Acoustic power - Lw</b>	dB(A)	65
<b>Acoustic pressure - Lp</b>	<b>1 m</b> dB(A)	57
	<b>5 m</b> dB(A)	43
	<b>10 m</b> dB(A)	37
Mechanical and operational information		
<b>Compressor type (3~ 400/50)</b>	SCROLL / 1 /	On/Off
<b>Refrigerant</b>	R410A (GWP - 2088)	8.9 kg
<b>Operating limit temperatures heating - (min / max ) [ °C ]</b>	25 / 65	
<b>Operating limit temperatures source - (min / max ) [ °C ]</b>	-22 / 40	
<b>Weight</b>	590 kg	

## Main technical data - WAMAK AWK 47 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]	590		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]				
	Number of stages	1	Maximal operating pressure - Water [bar]				
	On/Off		Testing pressure [bar]				
	Power factor Cosφ	0.64	Heat transfer medium				
	Winding resistance	0.76 Ohm	Water				
Refrigerant	R410A		Volume flow - Water [m³/h]				
	Volme	8.9 kg	Internal pressure drop - Water [kPa]				
	GWP	2088	ECM speed circulator - condenser				
	Safety class	A1	MAGNA 1 32-120				
Refrigeration oil type	POE RL32-3MAF		Temperature difference	@ 35 °C (nom)	5 K		
	Oil volume	3.38 L		@ 55 °C	8 K		
Maximal pressure - refrigerant [bar]	50			@ 65 °C	10 K		
	PED class	2	Renewable energy extraction side data				
EVI - vapour injection with economizer			Operating limit temperatures source	MIN [°C]	-22		
APS System of liquid subcooling				MAX [°C]	40		
Reversible operation (cooling)			for more see operating limits diagram				
Reverse defrosting with hot gas			Evaporator	Type	Cu-coil /Al-fin		
Plate exchanger protection HG-BYPASS				Count	1		
Electrical connection data				Material	Cu/Al		
Line voltage [#~ V/Hz]				Maximal operating pressure - refrigerant [bar]			
Current	nominal [A]	23.53		29			
	maximal [A]	37.40	Heat transfer medium				
	starting [A]	57.2	Air				
	Softstart		Volume flow - Air [m³/h]				
Main safety				14980			
Control System			Internal pressure drop - Air [kPa]				
Main controller	SIEMENS	RVS 21 AVS 55.199		0.032			
Extension module	AVS75.3xx	AVS75.3xx	Temperature difference - Air				
Bus Clip-In		LPB OCI346		7 K			
Online connection		Modbus OCI352	Number of fans				
Superheat controller				1			
*** with accessory			Fan diameter [mm]				
				800			

# WAMAK AWK 47 EVI

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

Model	AWK 47 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	39.7	kW	Seasonal space heating energy efficiency	ηs	166.9	%
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	35.0	kW	Tj = -7 °C	COPd	3.17	-
Tj = +2 °C	Pdh	41.2	kW	Tj = +2 °C	COPd	4.1	-
Tj = +7 °C	Pdh	48.6	kW	Tj = +7 °C	COPd	5.1	-
Tj = +12 °C	Pdh	57.4	kW	Tj = +12 °C	COPd	6.4	-
Tj = bivalent temperature	Pdh	34.4	kW	Tj = bivalent temperature	COPd	3.1	-
Tj = operation limit temperature	Pdh	25.1	kW	Tj = operation limit temperature	COPd	2.3	-
Bivalent temperature	Tbiv	-7	°C	Tj = operation limit temperature	TOL	-22	°C
Power consumption in modes other than active mode				Heating water operating limit temperature	WTOL	65	°C
Off mode	Poff	0.040	kW	Supplementary heater			
Thermostat-off mode	Pto	0.010	kW	Rated heat output	Psup	17.6	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	-	14980	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	82020.2	kWh
Sound power level							
indoors	Lwa	---	dB				
outdoors	Lwa	65	dB				

Contact details: WAMAK, s.r.o., Orovnička 252, 96652, Orovnička, Slovensko, info@wamak.sk

# WAMAK AWK 47 EVI

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

Model	AWK 47 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	41.6	kW	Seasonal space heating energy efficiency	ηs	131.1	%
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	36.6	kW	Tj = -7 °C	COPd	2.24	-
Tj = +2 °C	Pdh	42.3	kW	Tj = +2 °C	COPd	3.2	-
Tj = +7 °C	Pdh	49.1	kW	Tj = +7 °C	COPd	4.2	-
Tj = +12 °C	Pdh	57.6	kW	Tj = +12 °C	COPd	5.6	-
Tj = bivalent temperature	Pdh	36.1	kW	Tj = bivalent temperature	COPd	2.1	-
Tj = operation limit temperature	Pdh	26.4	kW	Tj = operation limit temperature	COPd	1.6	-
Bivalent temperature	Tbiv	-7	°C	Tj = operation limit temperature	TOL	-22	°C
Power consumption in modes other than active mode				Heating water operating limit temperature	WTOL	65	°C
Off mode	Poff	0.040	kW	Supplementary heater			
Thermostat-off mode	Pto	0.010	kW	Rated heat output	Psup	17.6	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	-	14980	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	85945.6	kWh
Sound power level							
indoors	Lwa	---	dB				
outdoors	Lwa	65	dB				

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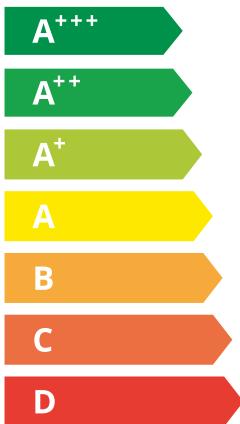
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AWK 47 EVI

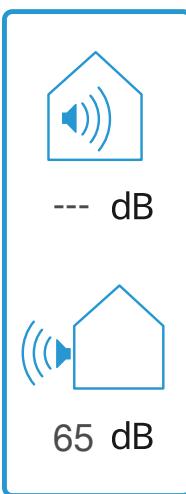


55 °C

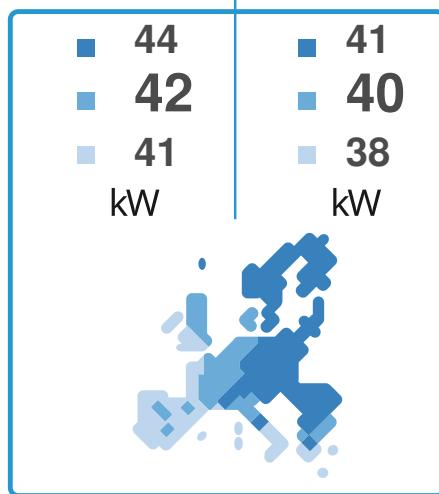
35 °C



A++



2019



811/2013

AWK 47 EVI

**ErP Data**

	55 °C	35 °C
Energy class	A++	A+++
η [ % ]	131.1	166.9
P <sub>rated</sub> [ kW ]	42	40
Q <sub>HE</sub> [ kWh/y ]	85946	82021
SCOP [ - ]	3.28	4.17
T <sub>bivalent</sub> [ °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]**

ZHI46K1P-TWD\_R410A\_1\_AW

Operating conditions		Qh	P	COP
1	A7 / W30-35	49.1	11.4	4.31
2	A2 / W35	41.7	11.4	3.67
3	A-22 / W35	25.1	10.8	2.31
A	A-7 / W34	35.0	11.0	3.17
B	A2 / W30	41.2	10.2	4.06
C	A7 / W27	48.6	9.5	5.11
D	A12 / W24	57.4	9.0	6.41
E	A-10 / W35	34.4	11.3	3.05
F	A-7 / W34	35.0	11.0	3.17

**SCOP DATA EN 14825:2018**

Average Climate / Low Temperature [35°C]	
SCOPon	4.25
SCOPnet	4.29
SCOP	4.17
η [ % ]	166.90
Label	A+++
Qh [ kWh ]	82020.20
Pdesignh [ kW ]	39.7
Tbivalent [ °C ]	-7.00

**Average Climate / Medium Temperature [55°C]**

Operating conditions		Qh	P	COP
1	A7 / W47-55	50.1	17.8	2.81
2	A2 / W55	43.2	17.7	2.44
3	A-22 / W55	26.4	15.2	1.62
A	A-7 / W52	36.6	16.3	2.24
B	A2 / W42	42.3	13.3	3.18
C	A7 / W36	49.1	11.6	4.22
D	A12 / W30	57.6	10.2	5.64
E	A-10 / W55	36.1	17.4	2.08
F	A-7 / W55	36.8	17.4	2.11

**SCOP DATA EN 14825:2018**

Average Climate / Medium Temperature [55°C]	
SCOPon	3.32
SCOPnet	3.34
SCOP	3.28
η [ % ]	131.06
Label	A++
Qh [ kWh ]	85945.60
Pdesignh [ kW ]	41.6
Tbivalent [ °C ]	-7.00

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

Operating conditions		Qc	P	EER
A	A35 / W12-7	36.4	13.6	2.68
B	A30 / W12-7	37.4	12.2	3.07
C	A25 / W12-7	38.2	10.9	3.51
D	A20 / W12-7	38.9	9.7	4.00

**SEER DATA EN 14825:2018 [ W 12 / 7°C ]**

SEERon	3.43
SEER	3.37
Qc [ kWh ]	21840.00
η [ % ]	134.85

**Radiant cooling W 23 / 18°C**

Operating conditions		Qc	P	EER
A	A35 / W23-18	48.4	13.6	3.56
B	A30 / W23-18	49.7	11.3	4.09
C	A25 / W23-18	50.9	10.1	4.67
D	A20 / W23-18	51.9	9.1	5.34

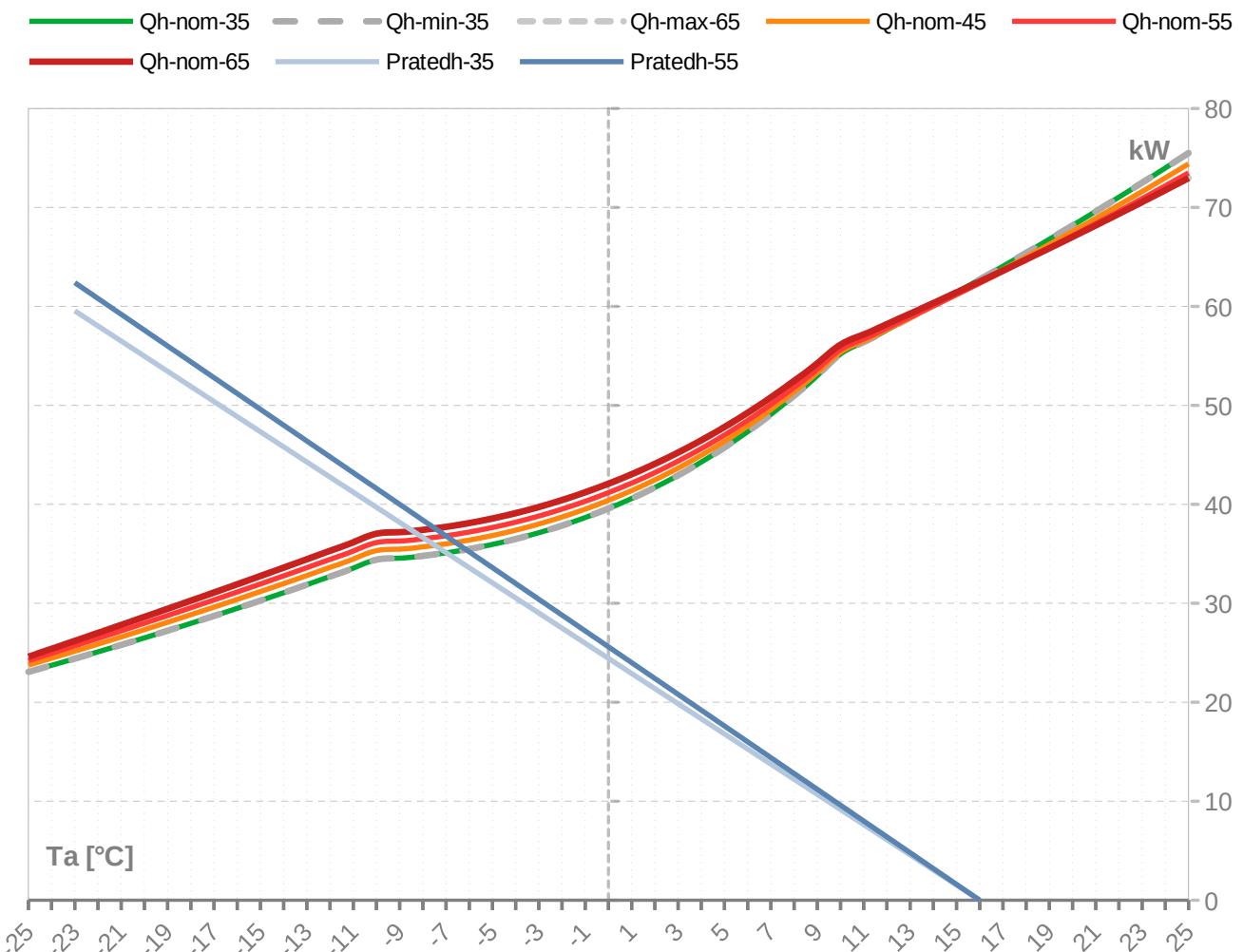
**SEER DATA EN 14825:2018 [ W 23 / 18°C ]**

SEERon	4.57
SEER	4.46
Qc [ kWh ]	21840.00
η [ % ]	178.56

# WAMAK AWK 47 EVI

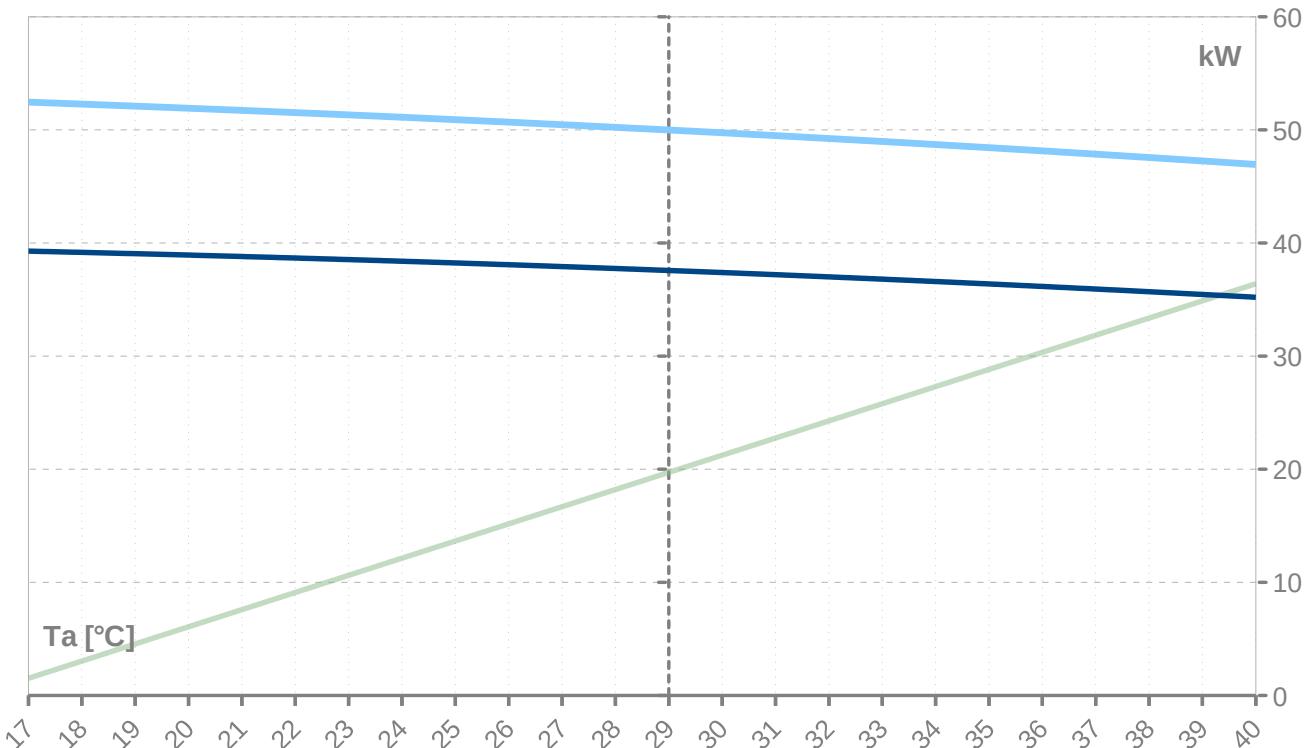
## Performance lines - heating

ZHI46K1P-TWD\_R410A\_1\_AW



## Performance lines - cooling

Pratedc    Qc-12/7    Qc-23/18



Ta [°C]	35 °C									
	Qh nom [kW]	Qh min [kW]	Qh max [kW]	Pin nom [kW]	Pin-min [kW]	Pin-max [kW]	COP kW / kW	I nom [A]	I min [A]	I max [A]
25	<b>64.1</b>	64.1		<b>11.4</b>	11.4		<b>5.62</b>	23.3	23.3	
24	<b>64.1</b>	64.1		<b>11.4</b>	11.4		<b>5.62</b>	23.3	23.3	
23	<b>64.1</b>	64.1		<b>11.4</b>	11.4		<b>5.62</b>	23.3	23.3	
22	<b>64.1</b>	64.1		<b>11.4</b>	11.4		<b>5.62</b>	23.3	23.3	
21	<b>64.1</b>	64.1		<b>11.4</b>	11.4		<b>5.62</b>	23.3	23.3	
20	<b>64.1</b>	64.1		<b>11.4</b>	11.4		<b>5.62</b>	23.3	23.3	
19	<b>64.1</b>	64.1		<b>11.4</b>	11.4		<b>5.62</b>	23.3	23.3	
18	<b>64.1</b>	64.1		<b>11.4</b>	11.4		<b>5.62</b>	23.3	23.3	
17	<b>64.1</b>	64.1		<b>11.4</b>	11.4		<b>5.62</b>	23.3	23.3	
16	<b>62.7</b>	62.7	62.7	<b>11.4</b>	11.4	11.4	<b>5.51</b>	23.3	23.3	23.3
15	<b>61.4</b>	61.4	61.4	<b>11.4</b>	11.4	11.4	<b>5.40</b>	23.3	23.3	23.3
14	<b>60.1</b>	60.1	60.1	<b>11.4</b>	11.4	11.4	<b>5.28</b>	23.3	23.3	23.3
13	<b>58.9</b>	58.9	58.9	<b>11.4</b>	11.4	11.4	<b>5.17</b>	23.4	23.4	23.4
12	<b>57.6</b>	57.6	57.6	<b>11.4</b>	11.4	11.4	<b>5.06</b>	23.4	23.4	23.4
11	<b>56.4</b>	56.4	56.4	<b>11.4</b>	11.4	11.4	<b>4.96</b>	23.4	23.4	23.4
10	<b>55.2</b>	55.2	55.2	<b>11.4</b>	11.4	11.4	<b>4.85</b>	23.4	23.4	23.4
9	<b>53.0</b>	53.0	53.0	<b>11.4</b>	11.4	11.4	<b>4.66</b>	23.5	23.5	23.5
8	<b>51.0</b>	51.0	51.0	<b>11.4</b>	11.4	11.4	<b>4.48</b>	23.5	23.5	23.5
7	<b>49.1</b>	49.1	49.1	<b>11.4</b>	11.4	11.4	<b>4.31</b>	23.6	23.6	23.6
6	<b>47.3</b>	47.3	47.3	<b>11.4</b>	11.4	11.4	<b>4.16</b>	23.6	23.6	23.6
5	<b>45.7</b>	45.7	45.7	<b>11.4</b>	11.4	11.4	<b>4.02</b>	23.7	23.7	23.7
4	<b>44.3</b>	44.3	44.3	<b>11.4</b>	11.4	11.4	<b>3.89</b>	23.7	23.7	23.7
3	<b>42.9</b>	42.9	42.9	<b>11.4</b>	11.4	11.4	<b>3.77</b>	23.7	23.7	23.7
2	<b>41.7</b>	41.7	41.7	<b>11.4</b>	11.4	11.4	<b>3.67</b>	23.7	23.7	23.7
1	<b>40.6</b>	40.6	40.6	<b>11.4</b>	11.4	11.4	<b>3.57</b>	23.7	23.7	23.7
0	<b>39.6</b>	39.6	39.6	<b>11.4</b>	11.4	11.4	<b>3.49</b>	23.7	23.7	23.7
-1	<b>38.7</b>	38.7	38.7	<b>11.3</b>	11.3	11.3	<b>3.41</b>	23.7	23.7	23.7
-2	<b>37.9</b>	37.9	37.9	<b>11.3</b>	11.3	11.3	<b>3.34</b>	23.7	23.7	23.7
-3	<b>37.1</b>	37.1	37.1	<b>11.3</b>	11.3	11.3	<b>3.28</b>	23.7	23.7	23.7
-4	<b>36.5</b>	36.5	36.5	<b>11.3</b>	11.3	11.3	<b>3.22</b>	23.7	23.7	23.7
-5	<b>35.9</b>	35.9	35.9	<b>11.3</b>	11.3	11.3	<b>3.18</b>	23.7	23.7	23.7
-6	<b>35.5</b>	35.5	35.5	<b>11.3</b>	11.3	11.3	<b>3.14</b>	23.7	23.7	23.7
-7	<b>35.1</b>	35.1	35.1	<b>11.3</b>	11.3	11.3	<b>3.11</b>	23.7	23.7	23.7
-8	<b>34.8</b>	34.8	34.8	<b>11.3</b>	11.3	11.3	<b>3.08</b>	23.7	23.7	23.7
-9	<b>34.6</b>	34.6	34.6	<b>11.3</b>	11.3	11.3	<b>3.06</b>	23.7	23.7	23.7
-10	<b>34.4</b>	34.4	34.4	<b>11.3</b>	11.3	11.3	<b>3.05</b>	23.7	23.7	23.7
-11	<b>33.5</b>	33.5	33.5	<b>11.3</b>	11.3	11.3	<b>2.98</b>	23.7	23.7	23.7
-12	<b>32.7</b>	32.7	32.7	<b>11.2</b>	11.2	11.2	<b>2.91</b>	23.7	23.7	23.7
-13	<b>31.9</b>	31.9	31.9	<b>11.2</b>	11.2	11.2	<b>2.84</b>	23.6	23.6	23.6
-14	<b>31.1</b>	31.1	31.1	<b>11.2</b>	11.2	11.2	<b>2.78</b>	23.6	23.6	23.6
-15	<b>30.3</b>	30.3	30.3	<b>11.1</b>	11.1	11.1	<b>2.72</b>	23.5	23.5	23.5
-16	<b>29.5</b>	29.5	29.5	<b>11.1</b>	11.1	11.1	<b>2.65</b>	23.5	23.5	23.5
-17	<b>28.7</b>	28.7	28.7	<b>11.1</b>	11.1	11.1	<b>2.59</b>	23.4	23.4	23.4
-18	<b>28.0</b>	28.0	28.0	<b>11.0</b>	11.0	11.0	<b>2.53</b>	23.3	23.3	23.3
-19	<b>27.2</b>	27.2	27.2	<b>11.0</b>	11.0	11.0	<b>2.48</b>	23.3	23.3	23.3
-20	<b>26.5</b>	26.5	26.5	<b>10.9</b>	10.9	10.9	<b>2.42</b>	23.2	23.2	23.2
-21	<b>25.8</b>	25.8	25.8	<b>10.9</b>	10.9	10.9	<b>2.37</b>	23.1	23.1	23.1
-22	<b>25.1</b>	25.1	25.1	<b>10.8</b>	10.8	10.8	<b>2.31</b>	23.0	23.0	23.0
-23	<b>24.4</b>	24.4	24.4	<b>10.8</b>	10.8	10.8	<b>2.26</b>	22.9	22.9	22.9
-24	<b>23.7</b>	23.7	23.7	<b>10.7</b>	10.7	10.7	<b>2.21</b>	22.8	22.8	22.8
-25	<b>23.1</b>	23.1	23.1	<b>10.7</b>	10.7	10.7	<b>2.17</b>	22.6	22.6	22.6

\* attention: operating limits not reflected in performance table

ZHI46K1P-TWD\_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	<b>74.4</b>	74.4	74.4	<b>14.1</b>	14.1	14.1	<b>5.27</b>	26.5	26.5	26.5	
24	<b>73.0</b>	73.0	73.0	<b>14.1</b>	14.1	14.1	<b>5.17</b>	26.5	26.5	26.5	
23	<b>71.6</b>	71.6	71.6	<b>14.1</b>	14.1	14.1	<b>5.07</b>	26.5	26.5	26.5	
22	<b>70.2</b>	70.2	70.2	<b>14.1</b>	14.1	14.1	<b>4.98</b>	26.5	26.5	26.5	
21	<b>68.9</b>	68.9	68.9	<b>14.1</b>	14.1	14.1	<b>4.88</b>	26.5	26.5	26.5	
20	<b>67.6</b>	67.6	67.6	<b>14.1</b>	14.1	14.1	<b>4.78</b>	26.5	26.5	26.5	
19	<b>66.3</b>	66.3	66.3	<b>14.1</b>	14.1	14.1	<b>4.69</b>	26.5	26.5	26.5	
18	<b>65.0</b>	65.0	65.0	<b>14.1</b>	14.1	14.1	<b>4.60</b>	26.5	26.5	26.5	
17	<b>63.7</b>	63.7	63.7	<b>14.1</b>	14.1	14.1	<b>4.50</b>	26.6	26.6	26.6	
16	<b>62.5</b>	62.5	62.5	<b>14.2</b>	14.2	14.2	<b>4.41</b>	26.6	26.6	26.6	
15	<b>61.2</b>	61.2	61.2	<b>14.2</b>	14.2	14.2	<b>4.32</b>	26.6	26.6	26.6	
14	<b>60.0</b>	60.0	60.0	<b>14.2</b>	14.2	14.2	<b>4.24</b>	26.6	26.6	26.6	
13	<b>58.8</b>	58.8	58.8	<b>14.2</b>	14.2	14.2	<b>4.15</b>	26.6	26.6	26.6	
12	<b>57.7</b>	57.7	57.7	<b>14.2</b>	14.2	14.2	<b>4.07</b>	26.6	26.6	26.6	
11	<b>56.5</b>	56.5	56.5	<b>14.2</b>	14.2	14.2	<b>3.98</b>	26.6	26.6	26.6	
10	<b>55.4</b>	55.4	55.4	<b>14.2</b>	14.2	14.2	<b>3.90</b>	26.6	26.6	26.6	
9	<b>53.3</b>	53.3	53.3	<b>14.2</b>	14.2	14.2	<b>3.75</b>	26.6	26.6	26.6	
8	<b>51.4</b>	51.4	51.4	<b>14.2</b>	14.2	14.2	<b>3.62</b>	26.7	26.7	26.7	
7	<b>49.6</b>	49.6	49.6	<b>14.2</b>	14.2	14.2	<b>3.49</b>	26.7	26.7	26.7	
6	<b>47.9</b>	47.9	47.9	<b>14.2</b>	14.2	14.2	<b>3.37</b>	26.7	26.7	26.7	
5	<b>46.4</b>	46.4	46.4	<b>14.2</b>	14.2	14.2	<b>3.26</b>	26.6	26.6	26.6	
4	<b>45.0</b>	45.0	45.0	<b>14.2</b>	14.2	14.2	<b>3.17</b>	26.6	26.6	26.6	
3	<b>43.7</b>	43.7	43.7	<b>14.2</b>	14.2	14.2	<b>3.08</b>	26.6	26.6	26.6	
2	<b>42.5</b>	42.5	42.5	<b>14.2</b>	14.2	14.2	<b>3.00</b>	26.6	26.6	26.6	
1	<b>41.4</b>	41.4	41.4	<b>14.2</b>	14.2	14.2	<b>2.92</b>	26.5	26.5	26.5	
0	<b>40.4</b>	40.4	40.4	<b>14.1</b>	14.1	14.1	<b>2.86</b>	26.5	26.5	26.5	
-1	<b>39.5</b>	39.5	39.5	<b>14.1</b>	14.1	14.1	<b>2.80</b>	26.5	26.5	26.5	
-2	<b>38.7</b>	38.7	38.7	<b>14.1</b>	14.1	14.1	<b>2.74</b>	26.4	26.4	26.4	
-3	<b>38.0</b>	38.0	38.0	<b>14.1</b>	14.1	14.1	<b>2.70</b>	26.4	26.4	26.4	
-4	<b>37.4</b>	37.4	37.4	<b>14.1</b>	14.1	14.1	<b>2.66</b>	26.4	26.4	26.4	
-5	<b>36.8</b>	36.8	36.8	<b>14.1</b>	14.1	14.1	<b>2.62</b>	26.3	26.3	26.3	
-6	<b>36.4</b>	36.4	36.4	<b>14.0</b>	14.0	14.0	<b>2.59</b>	26.3	26.3	26.3	
-7	<b>36.0</b>	36.0	36.0	<b>14.0</b>	14.0	14.0	<b>2.57</b>	26.3	26.3	26.3	
-8	<b>35.7</b>	35.7	35.7	<b>14.0</b>	14.0	14.0	<b>2.55</b>	26.2	26.2	26.2	
-9	<b>35.5</b>	35.5	35.5	<b>14.0</b>	14.0	14.0	<b>2.53</b>	26.2	26.2	26.2	
-10	<b>35.3</b>	35.3	35.3	<b>14.0</b>	14.0	14.0	<b>2.52</b>	26.2	26.2	26.2	
-11	<b>34.5</b>	34.5	34.5	<b>14.0</b>	14.0	14.0	<b>2.47</b>	26.1	26.1	26.1	
-12	<b>33.6</b>	33.6	33.6	<b>13.9</b>	13.9	13.9	<b>2.42</b>	26.0	26.0	26.0	
-13	<b>32.8</b>	32.8	32.8	<b>13.9</b>	13.9	13.9	<b>2.36</b>	25.9	25.9	25.9	
-14	<b>32.0</b>	32.0	32.0	<b>13.8</b>	13.8	13.8	<b>2.31</b>	25.8	25.8	25.8	
-15	<b>31.2</b>	31.2	31.2	<b>13.8</b>	13.8	13.8	<b>2.26</b>	25.7	25.7	25.7	
-16	<b>30.4</b>	30.4	30.4	<b>13.7</b>	13.7	13.7	<b>2.21</b>	25.6	25.6	25.6	
-17	<b>29.6</b>	29.6	29.6	<b>13.7</b>	13.7	13.7	<b>2.17</b>	25.5	25.5	25.5	
-18	<b>28.8</b>	28.8	28.8	<b>13.6</b>	13.6	13.6	<b>2.12</b>	25.4	25.4	25.4	
-19	<b>28.1</b>	28.1	28.1	<b>13.5</b>	13.5	13.5	<b>2.07</b>	25.2	25.2	25.2	
-20	<b>27.3</b>	27.3	27.3	<b>13.5</b>	13.5	13.5	<b>2.03</b>	25.1	25.1	25.1	
-21	<b>26.6</b>	26.6	26.6	<b>13.4</b>	13.4	13.4	<b>1.99</b>	24.9	24.9	24.9	
-22	<b>25.9</b>	25.9	25.9	<b>13.3</b>	13.3	13.3	<b>1.94</b>	24.7	24.7	24.7	
-23	<b>25.2</b>	25.2	25.2	<b>13.2</b>	13.2	13.2	<b>1.90</b>	24.5	24.5	24.5	
-24	<b>24.4</b>	24.4	24.4	<b>13.1</b>	13.1	13.1	<b>1.86</b>	24.3	24.3	24.3	
-25	<b>23.7</b>	23.7	23.7	<b>13.0</b>	13.0	13.0	<b>1.82</b>	24.1	24.1	24.1	

\* attention: operating limits not reflected in performance table

**WAMAK AWK 47 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	<b>73.5</b>	73.5	73.5	<b>17.7</b>	17.7	17.7	<b>4.15</b>	30.7	30.7	30.7
24	<b>72.2</b>	72.2	72.2	<b>17.7</b>	17.7	17.7	<b>4.07</b>	30.7	30.7	30.7
23	<b>70.9</b>	70.9	70.9	<b>17.7</b>	17.7	17.7	<b>3.99</b>	30.7	30.7	30.7
22	<b>69.6</b>	69.6	69.6	<b>17.8</b>	17.8	17.8	<b>3.92</b>	30.7	30.7	30.7
21	<b>68.4</b>	68.4	68.4	<b>17.8</b>	17.8	17.8	<b>3.85</b>	30.7	30.7	30.7
20	<b>67.1</b>	67.1	67.1	<b>17.8</b>	17.8	17.8	<b>3.77</b>	30.7	30.7	30.7
19	<b>65.9</b>	65.9	65.9	<b>17.8</b>	17.8	17.8	<b>3.70</b>	30.7	30.7	30.7
18	<b>64.7</b>	64.7	64.7	<b>17.8</b>	17.8	17.8	<b>3.63</b>	30.7	30.7	30.7
17	<b>63.5</b>	63.5	63.5	<b>17.8</b>	17.8	17.8	<b>3.56</b>	30.7	30.7	30.7
16	<b>62.3</b>	62.3	62.3	<b>17.8</b>	17.8	17.8	<b>3.50</b>	30.7	30.7	30.7
15	<b>61.2</b>	61.2	61.2	<b>17.8</b>	17.8	17.8	<b>3.43</b>	30.8	30.8	30.8
14	<b>60.0</b>	60.0	60.0	<b>17.8</b>	17.8	17.8	<b>3.36</b>	30.8	30.8	30.8
13	<b>58.9</b>	58.9	58.9	<b>17.9</b>	17.9	17.9	<b>3.30</b>	30.8	30.8	30.8
12	<b>57.8</b>	57.8	57.8	<b>17.9</b>	17.9	17.9	<b>3.24</b>	30.8	30.8	30.8
11	<b>56.7</b>	56.7	56.7	<b>17.9</b>	17.9	17.9	<b>3.17</b>	30.8	30.8	30.8
10	<b>55.6</b>	55.6	55.6	<b>17.9</b>	17.9	17.9	<b>3.11</b>	30.8	30.8	30.8
9	<b>53.7</b>	53.7	53.7	<b>17.9</b>	17.9	17.9	<b>3.00</b>	30.8	30.8	30.8
8	<b>51.8</b>	51.8	51.8	<b>17.9</b>	17.9	17.9	<b>2.90</b>	30.7	30.7	30.7
7	<b>50.1</b>	50.1	50.1	<b>17.8</b>	17.8	17.8	<b>2.81</b>	30.7	30.7	30.7
6	<b>48.5</b>	48.5	48.5	<b>17.8</b>	17.8	17.8	<b>2.72</b>	30.7	30.7	30.7
5	<b>47.0</b>	47.0	47.0	<b>17.8</b>	17.8	17.8	<b>2.64</b>	30.6	30.6	30.6
4	<b>45.6</b>	45.6	45.6	<b>17.8</b>	17.8	17.8	<b>2.57</b>	30.6	30.6	30.6
3	<b>44.4</b>	44.4	44.4	<b>17.8</b>	17.8	17.8	<b>2.50</b>	30.5	30.5	30.5
2	<b>43.2</b>	43.2	43.2	<b>17.7</b>	17.7	17.7	<b>2.44</b>	30.5	30.5	30.5
1	<b>42.1</b>	42.1	42.1	<b>17.7</b>	17.7	17.7	<b>2.38</b>	30.4	30.4	30.4
0	<b>41.2</b>	41.2	41.2	<b>17.7</b>	17.7	17.7	<b>2.33</b>	30.3	30.3	30.3
-1	<b>40.3</b>	40.3	40.3	<b>17.6</b>	17.6	17.6	<b>2.29</b>	30.2	30.2	30.2
-2	<b>39.5</b>	39.5	39.5	<b>17.6</b>	17.6	17.6	<b>2.25</b>	30.2	30.2	30.2
-3	<b>38.8</b>	38.8	38.8	<b>17.6</b>	17.6	17.6	<b>2.21</b>	30.1	30.1	30.1
-4	<b>38.2</b>	38.2	38.2	<b>17.5</b>	17.5	17.5	<b>2.18</b>	30.0	30.0	30.0
-5	<b>37.7</b>	37.7	37.7	<b>17.5</b>	17.5	17.5	<b>2.15</b>	30.0	30.0	30.0
-6	<b>37.2</b>	37.2	37.2	<b>17.5</b>	17.5	17.5	<b>2.13</b>	29.9	29.9	29.9
-7	<b>36.8</b>	36.8	36.8	<b>17.4</b>	17.4	17.4	<b>2.11</b>	29.9	29.9	29.9
-8	<b>36.5</b>	36.5	36.5	<b>17.4</b>	17.4	17.4	<b>2.10</b>	29.8	29.8	29.8
-9	<b>36.3</b>	36.3	36.3	<b>17.4</b>	17.4	17.4	<b>2.09</b>	29.8	29.8	29.8
-10	<b>36.1</b>	36.1	36.1	<b>17.4</b>	17.4	17.4	<b>2.08</b>	29.8	29.8	29.8
-11	<b>35.3</b>	35.3	35.3	<b>17.3</b>	17.3	17.3	<b>2.04</b>	29.7	29.7	29.7
-12	<b>34.4</b>	34.4	34.4	<b>17.3</b>	17.3	17.3	<b>1.99</b>	29.5	29.5	29.5
-13	<b>33.6</b>	33.6	33.6	<b>17.2</b>	17.2	17.2	<b>1.95</b>	29.4	29.4	29.4
-14	<b>32.8</b>	32.8	32.8	<b>17.1</b>	17.1	17.1	<b>1.91</b>	29.2	29.2	29.2
-15	<b>31.9</b>	31.9	31.9	<b>17.0</b>	17.0	17.0	<b>1.87</b>	29.1	29.1	29.1
-16	<b>31.1</b>	31.1	31.1	<b>17.0</b>	17.0	17.0	<b>1.84</b>	28.9	28.9	28.9
-17	<b>30.3</b>	30.3	30.3	<b>16.9</b>	16.9	16.9	<b>1.80</b>	28.7	28.7	28.7
-18	<b>29.5</b>	29.5	29.5	<b>16.8</b>	16.8	16.8	<b>1.76</b>	28.5	28.5	28.5
-19	<b>28.8</b>	28.8	28.8	<b>16.7</b>	16.7	16.7	<b>1.72</b>	28.3	28.3	28.3
-20	<b>28.0</b>	28.0	28.0	<b>16.6</b>	16.6	16.6	<b>1.69</b>	28.1	28.1	28.1
-21	<b>27.2</b>	27.2	27.2	<b>16.5</b>	16.5	16.5	<b>1.65</b>	27.9	27.9	27.9
-22	<b>26.4</b>	26.4	26.4	<b>16.3</b>	16.3	16.3	<b>1.62</b>	27.6	27.6	27.6
-23	<b>25.7</b>	25.7	25.7	<b>16.2</b>	16.2	16.2	<b>1.58</b>	27.4	27.4	27.4
-24	<b>24.9</b>	24.9	24.9	<b>16.1</b>	16.1	16.1	<b>1.55</b>	27.1	27.1	27.1
-25	<b>24.2</b>	24.2	24.2	<b>16.0</b>	16.0	16.0	<b>1.52</b>	26.8	26.8	26.8

\* attention: operating limits not reflected in performance table

**WAMAK AWK 47 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	<b>73.0</b>	73.0	73.0	<b>22.6</b>	22.6	22.6	<b>3.23</b>	36.1	36.1	36.1	
24	<b>71.8</b>	71.8	71.8	<b>22.6</b>	22.6	22.6	<b>3.17</b>	36.2	36.2	36.2	
23	<b>70.5</b>	70.5	70.5	<b>22.6</b>	22.6	22.6	<b>3.12</b>	36.2	36.2	36.2	
22	<b>69.4</b>	69.4	69.4	<b>22.6</b>	22.6	22.6	<b>3.06</b>	36.2	36.2	36.2	
21	<b>68.2</b>	68.2	68.2	<b>22.6</b>	22.6	22.6	<b>3.01</b>	36.2	36.2	36.2	
20	<b>67.0</b>	67.0	67.0	<b>22.7</b>	22.7	22.7	<b>2.96</b>	36.3	36.3	36.3	
19	<b>65.9</b>	65.9	65.9	<b>22.7</b>	22.7	22.7	<b>2.91</b>	36.3	36.3	36.3	
18	<b>64.7</b>	64.7	64.7	<b>22.7</b>	22.7	22.7	<b>2.86</b>	36.3	36.3	36.3	
17	<b>63.6</b>	63.6	63.6	<b>22.7</b>	22.7	22.7	<b>2.81</b>	36.3	36.3	36.3	
16	<b>62.5</b>	62.5	62.5	<b>22.7</b>	22.7	22.7	<b>2.76</b>	36.3	36.3	36.3	
15	<b>61.4</b>	61.4	61.4	<b>22.7</b>	22.7	22.7	<b>2.71</b>	36.4	36.4	36.4	
14	<b>60.3</b>	60.3	60.3	<b>22.7</b>	22.7	22.7	<b>2.66</b>	36.4	36.4	36.4	
13	<b>59.3</b>	59.3	59.3	<b>22.7</b>	22.7	22.7	<b>2.61</b>	36.4	36.4	36.4	
12	<b>58.2</b>	58.2	58.2	<b>22.7</b>	22.7	22.7	<b>2.57</b>	36.4	36.4	36.4	
11	<b>57.2</b>	57.2	57.2	<b>22.7</b>	22.7	22.7	<b>2.52</b>	36.4	36.4	36.4	
10	<b>56.1</b>	56.1	56.1	<b>22.7</b>	22.7	22.7	<b>2.48</b>	36.4	36.4	36.4	
9	<b>54.2</b>	54.2	54.2	<b>22.6</b>	22.6	22.6	<b>2.40</b>	36.4	36.4	36.4	
8	<b>52.5</b>	52.5	52.5	<b>22.6</b>	22.6	22.6	<b>2.32</b>	36.3	36.3	36.3	
7	<b>50.8</b>	50.8	50.8	<b>22.6</b>	22.6	22.6	<b>2.25</b>	36.3	36.3	36.3	
6	<b>49.3</b>	49.3	49.3	<b>22.5</b>	22.5	22.5	<b>2.19</b>	36.2	36.2	36.2	
5	<b>47.8</b>	47.8	47.8	<b>22.5</b>	22.5	22.5	<b>2.13</b>	36.2	36.2	36.2	
4	<b>46.5</b>	46.5	46.5	<b>22.4</b>	22.4	22.4	<b>2.07</b>	36.1	36.1	36.1	
3	<b>45.2</b>	45.2	45.2	<b>22.4</b>	22.4	22.4	<b>2.02</b>	36.0	36.0	36.0	
2	<b>44.1</b>	44.1	44.1	<b>22.3</b>	22.3	22.3	<b>1.98</b>	35.9	35.9	35.9	
1	<b>43.0</b>	43.0	43.0	<b>22.2</b>	22.2	22.2	<b>1.94</b>	35.8	35.8	35.8	
0	<b>42.1</b>	42.1	42.1	<b>22.2</b>	22.2	22.2	<b>1.90</b>	35.7	35.7	35.7	
-1	<b>41.2</b>	41.2	41.2	<b>22.1</b>	22.1	22.1	<b>1.86</b>	35.6	35.6	35.6	
-2	<b>40.4</b>	40.4	40.4	<b>22.1</b>	22.1	22.1	<b>1.83</b>	35.5	35.5	35.5	
-3	<b>39.7</b>	39.7	39.7	<b>22.0</b>	22.0	22.0	<b>1.81</b>	35.4	35.4	35.4	
-4	<b>39.1</b>	39.1	39.1	<b>21.9</b>	21.9	21.9	<b>1.78</b>	35.3	35.3	35.3	
-5	<b>38.6</b>	38.6	38.6	<b>21.9</b>	21.9	21.9	<b>1.76</b>	35.2	35.2	35.2	
-6	<b>38.1</b>	38.1	38.1	<b>21.9</b>	21.9	21.9	<b>1.74</b>	35.1	35.1	35.1	
-7	<b>37.7</b>	37.7	37.7	<b>21.8</b>	21.8	21.8	<b>1.73</b>	35.1	35.1	35.1	
-8	<b>37.4</b>	37.4	37.4	<b>21.8</b>	21.8	21.8	<b>1.72</b>	35.0	35.0	35.0	
-9	<b>37.2</b>	37.2	37.2	<b>21.8</b>	21.8	21.8	<b>1.71</b>	35.0	35.0	35.0	
-10	<b>37.0</b>	37.0	37.0	<b>21.8</b>	21.8	21.8	<b>1.70</b>	35.0	35.0	35.0	
-11	<b>36.2</b>	36.2	36.2	<b>21.7</b>	21.7	21.7	<b>1.67</b>	34.8	34.8	34.8	
-12	<b>35.3</b>	35.3	35.3	<b>21.6</b>	21.6	21.6	<b>1.64</b>	34.6	34.6	34.6	
-13	<b>34.4</b>	34.4	34.4	<b>21.5</b>	21.5	21.5	<b>1.61</b>	34.4	34.4	34.4	
-14	<b>33.6</b>	33.6	33.6	<b>21.3</b>	21.3	21.3	<b>1.57</b>	34.2	34.2	34.2	
-15	<b>32.8</b>	32.8	32.8	<b>21.2</b>	21.2	21.2	<b>1.54</b>	34.0	34.0	34.0	
-16											
-17											
-18											
-19											
-20											
-21											
-22											
-23											
-24											
-25											

\* attention: operating limits not reflected in performance table

**WAMAK AWK 47 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	<b>35.2</b>	35.2	35.2	<b>15.2</b>	15.2	15.2	<b>2.32</b>	27.7	27.7	27.7	
39	<b>35.5</b>	35.5	35.5	<b>14.9</b>	14.9	14.9	<b>2.38</b>	27.4	27.4	27.4	
38	<b>35.7</b>	35.7	35.7	<b>14.5</b>	14.5	14.5	<b>2.46</b>	27.0	27.0	27.0	
37	<b>35.9</b>	35.9	35.9	<b>14.2</b>	14.2	14.2	<b>2.53</b>	26.7	26.7	26.7	
36	<b>36.2</b>	36.2	36.2	<b>13.9</b>	13.9	13.9	<b>2.60</b>	26.3	26.3	26.3	
35	<b>36.4</b>	36.4	36.4	<b>13.6</b>	13.6	13.6	<b>2.68</b>	26.0	26.0	26.0	
34	<b>36.6</b>	36.6	36.6	<b>13.3</b>	13.3	13.3	<b>2.75</b>	25.7	25.7	25.7	
33	<b>36.8</b>	36.8	36.8	<b>13.0</b>	13.0	13.0	<b>2.83</b>	25.3	25.3	25.3	
32	<b>37.0</b>	37.0	37.0	<b>12.7</b>	12.7	12.7	<b>2.91</b>	25.0	25.0	25.0	
31	<b>37.2</b>	37.2	37.2	<b>12.4</b>	12.4	12.4	<b>2.99</b>	24.7	24.7	24.7	
30	<b>37.4</b>	37.4	37.4	<b>12.2</b>	12.2	12.2	<b>3.07</b>	24.4	24.4	24.4	
29	<b>37.6</b>	37.6	37.6	<b>11.9</b>	11.9	11.9	<b>3.16</b>	24.2	24.2	24.2	
28	<b>37.7</b>	37.7	37.7	<b>11.6</b>	11.6	11.6	<b>3.24</b>	23.9	23.9	23.9	
27	<b>37.9</b>	37.9	37.9	<b>11.4</b>	11.4	11.4	<b>3.33</b>	23.6	23.6	23.6	
26	<b>38.1</b>	38.1	38.1	<b>11.1</b>	11.1	11.1	<b>3.42</b>	23.3	23.3	23.3	
25	<b>38.2</b>	38.2	38.2	<b>10.9</b>	10.9	10.9	<b>3.51</b>	23.1	23.1	23.1	
24	<b>38.4</b>	38.4	38.4	<b>10.6</b>	10.6	10.6	<b>3.60</b>	22.8	22.8	22.8	
23	<b>38.5</b>	38.5	38.5	<b>10.4</b>	10.4	10.4	<b>3.70</b>	22.5	22.5	22.5	
22	<b>38.7</b>	38.7	38.7	<b>10.2</b>	10.2	10.2	<b>3.80</b>	22.3	22.3	22.3	
21	<b>38.8</b>	38.8	38.8	<b>10.0</b>	10.0	10.0	<b>3.90</b>	22.0	22.0	22.0	
20	<b>38.9</b>	38.9	38.9	<b>9.7</b>	9.7	9.7	<b>4.00</b>	21.8	21.8	21.8	
19	<b>39.1</b>	39.1	39.1	<b>9.5</b>	9.5	9.5	<b>4.11</b>	21.5	21.5	21.5	
18	<b>39.2</b>	39.2	39.2	<b>9.3</b>	9.3	9.3	<b>4.22</b>	21.3	21.3	21.3	
17	<b>39.3</b>	39.3	39.3	<b>9.1</b>	9.1	9.1	<b>4.33</b>	21.0	21.0	21.0	

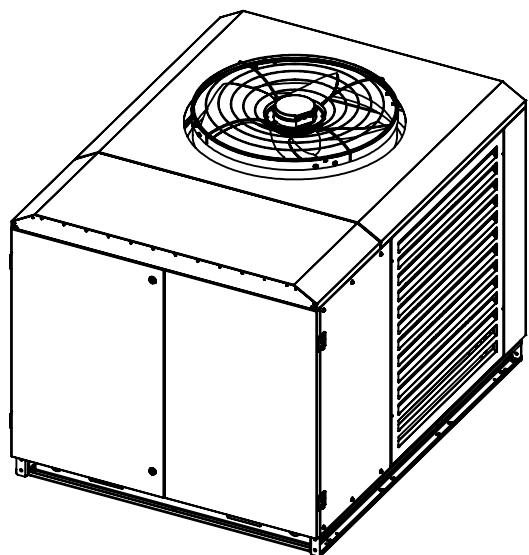
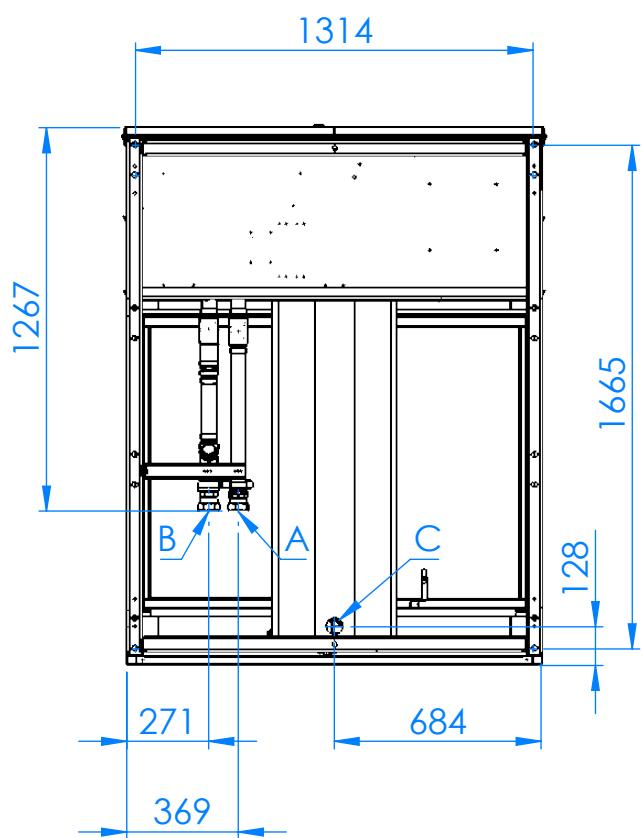
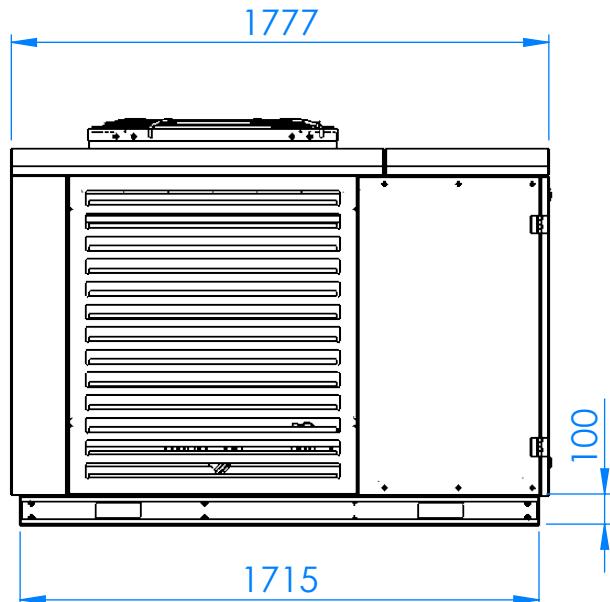
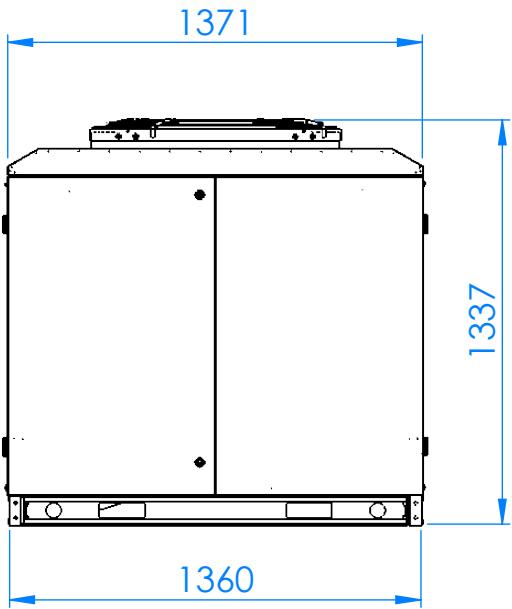
Tc [°C]			W 23 / 18 °C								
Ta [°C]	Qc [kW]	Qh-min [kW]	Qh-max [kW]	Pin [kW]	Pin-min [kW]	Pin-max [kW]	EER kW / kW	I [A]	I-min [A]	I-max [A]	
40	<b>46.9</b>	46.9	46.9	<b>15.2</b>	15.2	15.2	<b>3.09</b>	27.7	27.7	27.7	
39	<b>47.3</b>	47.3	47.3	<b>14.9</b>	14.9	14.9	<b>3.18</b>	27.3	27.3	27.3	
38	<b>47.6</b>	47.6	47.6	<b>14.5</b>	14.5	14.5	<b>3.27</b>	26.9	26.9	26.9	
37	<b>47.9</b>	47.9	47.9	<b>14.2</b>	14.2	14.2	<b>3.37</b>	26.6	26.6	26.6	
36	<b>48.1</b>	48.1	48.1	<b>13.9</b>	13.9	13.9	<b>3.46</b>	26.2	26.2	26.2	
35	<b>48.4</b>	48.4	48.4	<b>13.6</b>	13.6	13.6	<b>3.56</b>	25.9	25.9	25.9	
34	<b>48.7</b>	48.7	48.7	<b>13.3</b>	13.3	13.3	<b>3.66</b>	25.5	25.5	25.5	
33	<b>49.0</b>	49.0	49.0	<b>13.0</b>	13.0	13.0	<b>3.77</b>	25.2	25.2	25.2	
32	<b>49.2</b>	49.2	49.2	<b>12.7</b>	12.7	12.7	<b>3.87</b>	24.9	24.9	24.9	
31	<b>49.5</b>	49.5	49.5	<b>12.4</b>	12.4	12.4	<b>3.98</b>	24.5	24.5	24.5	
30	<b>49.7</b>	49.7	49.7	<b>12.2</b>	12.2	12.2	<b>4.09</b>	24.2	24.2	24.2	
29	<b>50.0</b>	50.0	50.0	<b>11.9</b>	11.9	11.9	<b>4.20</b>	23.9	23.9	23.9	
28	<b>50.2</b>	50.2	50.2	<b>11.6</b>	11.6	11.6	<b>4.32</b>	23.6	23.6	23.6	
27	<b>50.5</b>	50.5	50.5	<b>11.4</b>	11.4	11.4	<b>4.43</b>	23.3	23.3	23.3	
26	<b>50.7</b>	50.7	50.7	<b>11.1</b>	11.1	11.1	<b>4.55</b>	23.0	23.0	23.0	
25	<b>50.9</b>	50.9	50.9	<b>10.9</b>	10.9	10.9	<b>4.67</b>	22.7	22.7	22.7	
24	<b>51.1</b>	51.1	51.1	<b>10.6</b>	10.6	10.6	<b>4.80</b>	22.4	22.4	22.4	
23	<b>51.3</b>	51.3	51.3	<b>10.4</b>	10.4	10.4	<b>4.93</b>	22.2	22.2	22.2	
22	<b>51.5</b>	51.5	51.5	<b>10.2</b>	10.2	10.2	<b>5.06</b>	21.9	21.9	21.9	
21	<b>51.7</b>	51.7	51.7	<b>10.0</b>	10.0	10.0	<b>5.20</b>	21.6	21.6	21.6	
20	<b>51.9</b>	51.9	51.9	<b>9.7</b>	9.7	9.7	<b>5.34</b>	21.3	21.3	21.3	
19	<b>52.1</b>	52.1	52.1	<b>9.5</b>	9.5	9.5	<b>5.48</b>	21.0	21.0	21.0	
18	<b>52.3</b>	52.3	52.3	<b>9.3</b>	9.3	9.3	<b>5.63</b>	20.8	20.8	20.8	
17	<b>52.5</b>	52.5	52.5	<b>9.1</b>	9.1	9.1	<b>5.78</b>	20.5	20.5	20.5	

\* 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 47 EVI



A -   
B -   
C - Condens

