



**WAMAK**

## Heat pump



**AiWa 27 EVI**

*H In*

# WAMAK AiWa 27 EVI H In

## Product description

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Compact air-to-water heat pump for heating, cooling and domestic hot water with the possibility of installation either in the utility room or outdoors. A short closed refrigerant circuit with a silent scroll compressor at the bottom under the fan simplifies installation and helps for long-term stable operation.

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.

Indoor 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
- 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)
- 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 - (with accessory)
- DHW switching control - (with accessory)
- Outdoor temperature sensor - (with accessory)
- Buffer temperature sensor - (with accessory)
- Modbus connection - (with accessory)

## Basic performance data - WAMAK AiWa 27 EVI H In

Heating - EN 14511		
<b>Heating capacity [kW]</b>	A7 / W35	29.0
	A2 / W35	24.7
	A-7 / W34	20.3
<b>Electrical power input [kW]</b>	A7 / W35	6.4
	A2 / W35	6.4
	A-7 / W34	6.3
<b>Heating efficiency faktor [COP]</b>	A7 / W35	4.56
	A2 / W35	3.83
	A-7 / W34	3.23
Seasonal space heating energy efficiency - SCOP EN 14825		
Average Climate / Low Temperature [35°C]	SCOP	4.41
	η [ % ]	176.4
	Label	A+++
	Qhe [ kWh ]	47518.0
	Pdesignh [ kW ]	23.0
	Tbivalent [ °C ]	-7
Cooling		
<b>Cooling capacity - [kW]</b>	A35 / W23-18	28.4
	A25 / W23-18	30.0
	A35 / W12-7	20.9
	A25 / W12-7	20.9
Seasonal space cooling energy efficiency - SEER EN 14825		
[ W 23 / 18°C ]	SEER	4.61
	Qce [ kWh ]	12540.0
	ηc [ % ]	184.3
Sound EN 12102		
<b>Acoustic power - Lw</b>	dB(A)	68.2
<b>Acoustic pressure - Lp</b>	<b>1 m</b> dB(A)	60.2
	<b>5 m</b> dB(A)	46.2
	<b>10 m</b> dB(A)	40.2
Mechanical and operational information		
<b>Compressor type (3~ 400/50)</b>	SCROLL / 1 /	On/Off
<b>Refrigerant</b>	R410A (GWP - 2088)	7.9 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>	360 kg	

## Main technical data - WAMAK AiWa 27 EVI H In

Enclosure type			Heat energy rejection side data		
Basic dimensions			Operating limit temperatures heating	MAX [°C]	65
			MIN [°C]	25	
for more see operating limits diagram					
Weight [kg]	360		Condenser	Port size	1.1/2 "
Colour	Gray			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	0.69	Heat transfer medium	Water	
	Winding resistance	1.24 Ohm	Volume flow @ dT 5K (nom) - Water [m³/h]	5.00	
Refrigerant	R410A		Internal pressure drop - Water [kPa]	16	
	Volme	7.9 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	1200mm x 1200mm "
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]	12.30	Heat transfer medium	Air	
	maximal [A]	21.00	Volume flow - Air [m³/h]	9060	
	starting [A]	32.12	Internal pressure drop - Air [kPa]	0.036	
Softstart	-		Temperature difference - Air	7 K	
Main safety	C32		Number of fans	1	
Control System			Fan diameter [mm]	800	
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 AiWa 27 EVI H In

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

Model	AiWa 27 EVI H In		
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	23.0	kW	Seasonal space heating energy efficiency	ηs	176.4	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	20.3	kW	Tj = -7 °C	COPd	3.23	-
Tj = +2 °C	Pdh	24.6	kW	Tj = +2 °C	COPd	4.3	-
Tj = +7 °C	Pdh	28.9	kW	Tj = +7 °C	COPd	5.5	-
Tj = +12 °C	Pdh	33.7	kW	Tj = +12 °C	COPd	7.4	-
Tj = bivalent temperature	Pdh	19.7	kW	Tj = bivalent temperature	COPd	3.1	-
Tj = operation limit temperature	Pdh	14.0	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	0.010	kW	Supplementary heater			
Thermostat-off mode	Pto	0.010	kW	Rated heat output	Psup	10.5	kW
Standby mode	Psb	0.010	kW	Type of energy input		electricity	
Crankcase heater mode	Pck	0.050	kW	For air-to-water heat pumps: Rated air flow rate, outdoors	-	9060	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	47518.0	kWh
Sound power level							
indoors	Lwa	68	dB				
outdoors	Lwa	---	dB				

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Model	AiWa 27 EVI H In		
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	24.0	kW	Seasonal space heating energy efficiency	ηs	134.6	%
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	21.0	kW	Tj = -7 °C	COPd	2.17	-
Tj = +2 °C	Pdh	24.8	kW	Tj = +2 °C	COPd	3.3	-
Tj = +7 °C	Pdh	29.0	kW	Tj = +7 °C	COPd	4.5	-
Tj = +12 °C	Pdh	33.8	kW	Tj = +12 °C	COPd	6.3	-
Tj = bivalent temperature	Pdh	20.7	kW	Tj = bivalent temperature	COPd	2.0	-
Tj = operation limit temperature	Pdh	15.5	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	0.010	kW	Supplementary heater			
Thermostat-off mode	Pto	0.010	kW	Rated heat output	Psup	10.5	kW
Standby mode	Psb	0.010	kW	Type of energy input		electricity	
Crankcase heater mode	Pck	0.050	kW	For air-to-water heat pumps: Rated air flow rate, outdoors	-	9060	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	49584.0	kWh
Sound power level							
indoors	Lwa	68	dB				
outdoors	Lwa	---	dB				

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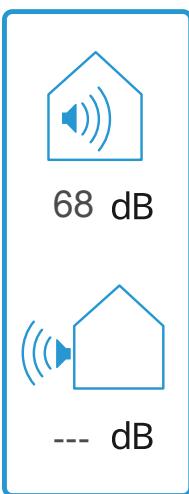
55 °C

35 °C

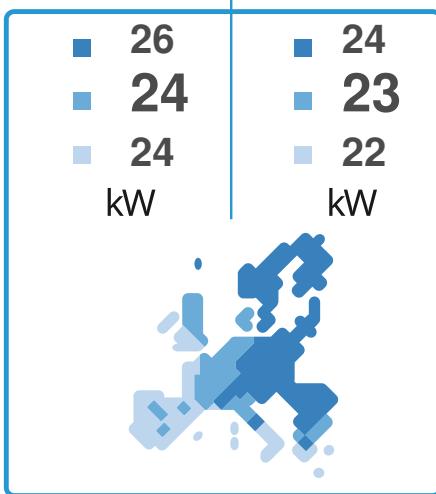


A++

A+++



2019



AiWa 27 EVI H In

**ErP Data**

	55 °C	35 °C
Energy class	A++	A+++
$\eta$ [ % ]	134.6	176.4
P <sub>rated</sub> [ kW ]	24	23
Q <sub>HE</sub> [ kWh/y ]	49584	47518
SCOP [ - ]	3.36	4.41
T <sub>bivalent</sub> [ °C ]	-7	-7

CONTROLLER



+ QAA55/75

class **VII**

3.5%

- QAA55/75

class **III**

1.5%

**Heating performance data**

Version: v2024.004-AW

**Average Climate / Low Temperature [35°C]**

ZHI27K1P-TFD\_R410A\_1\_AW

Operating conditions		Qh	P	COP
1	A7 / W30-35	29.0	6.4	4.56
2	A2 / W35	24.7	6.4	3.83
3	A-22 / W35	14.0	6.4	2.20
A	A-7 / W34	20.3	6.3	3.23
B	A2 / W30	24.6	5.7	4.29
C	A7 / W27	28.9	5.2	5.54
D	A12 / W24	33.7	4.5	7.45
E	A-10 / W35	19.7	6.4	3.06
F	A-7 / W34	20.3	6.3	3.23

SCOP DATA EN 14825:2018	
<b>Average Climate / Low Temperature [35°C]</b>	
SCOPon	4.51
SCOPnet	4.55
SCOP	4.41
η [ % ]	176.44
Label	A+++
Qh [ kWh ]	47518.00
Pdesignh [ kW ]	23.0
Tbivalent [ °C ]	-7.00

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

Operating conditions		Qh	P	COP
1	A7 / W47-55	29.3	10.5	2.80
2	A2 / W55	25.2	10.5	2.41
3	A-22 / W55	15.5	9.8	1.47
A	A-7 / W52	21.0	9.7	2.17
B	A2 / W42	24.8	7.6	3.27
C	A7 / W36	29.0	6.5	4.45
D	A12 / W30	33.8	5.4	6.27
E	A-10 / W55	20.7	10.5	1.97
F	A-7 / W55	21.2	10.5	2.03

SCOP DATA EN 14825:2018	
<b>Average Climate / Medium Temperature [55°C]</b>	
SCOPon	3.42
SCOPnet	3.45
SCOP	3.36
η [ % ]	134.57
Label	A++
Qh [ kWh ]	49584.00
Pdesignh [ kW ]	24.0
Tbivalent [ °C ]	-7.00

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

Operating conditions		Qc	P	EER
A	A35 / W12-7	20.9	7.7	2.70
B	A30 / W12-7	21.7	6.9	3.16
C	A25 / W12-7	22.3	6.1	3.67
D	A20 / W12-7	22.9	5.4	4.24

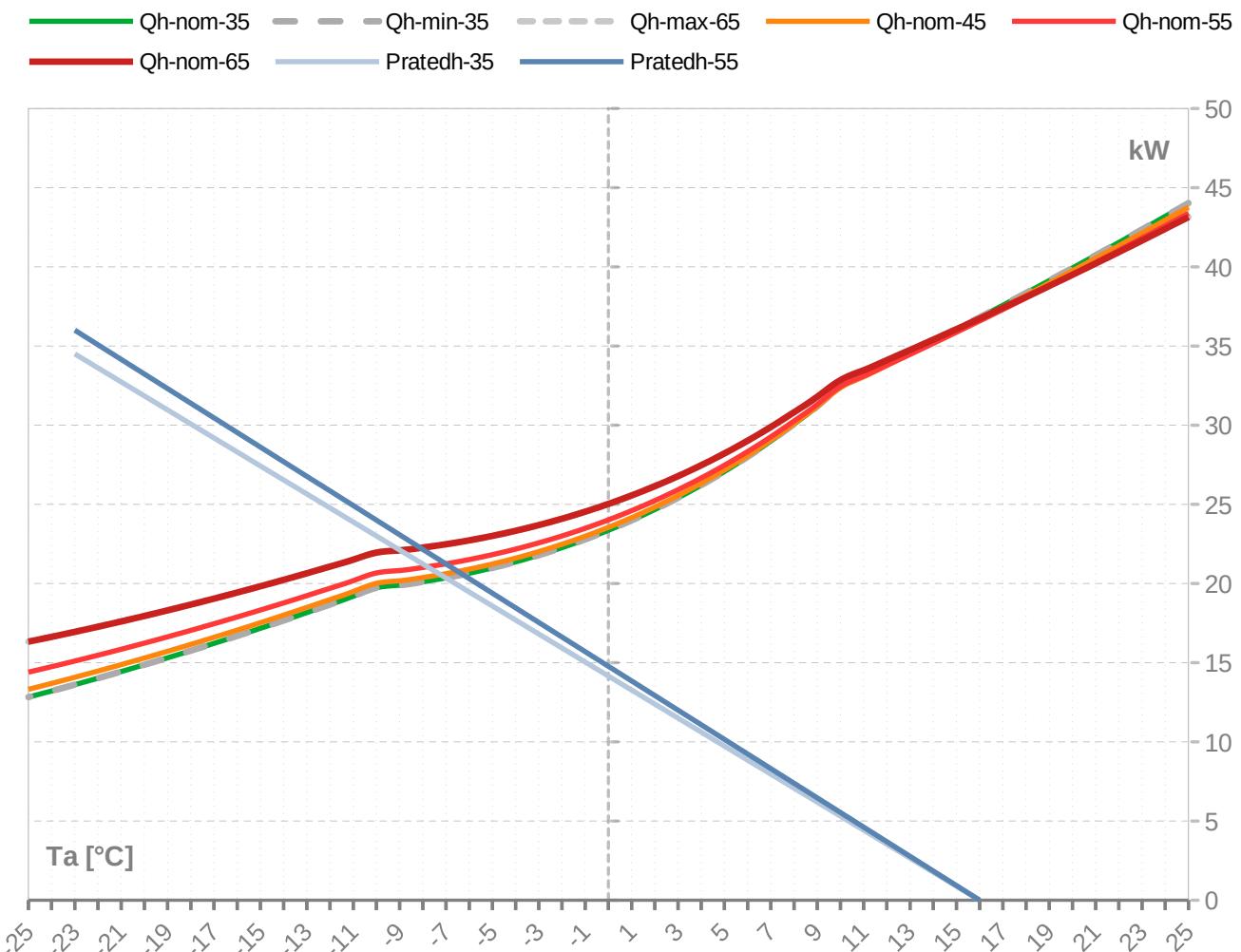
SEER DATA EN 14825:2018 [ W 12 / 7°C ]	
SEERon	3.56
SEER	3.46
Qc [ kWh ]	12540.00
η [ % ]	138.31

**Radiant cooling W 23 / 18°C**

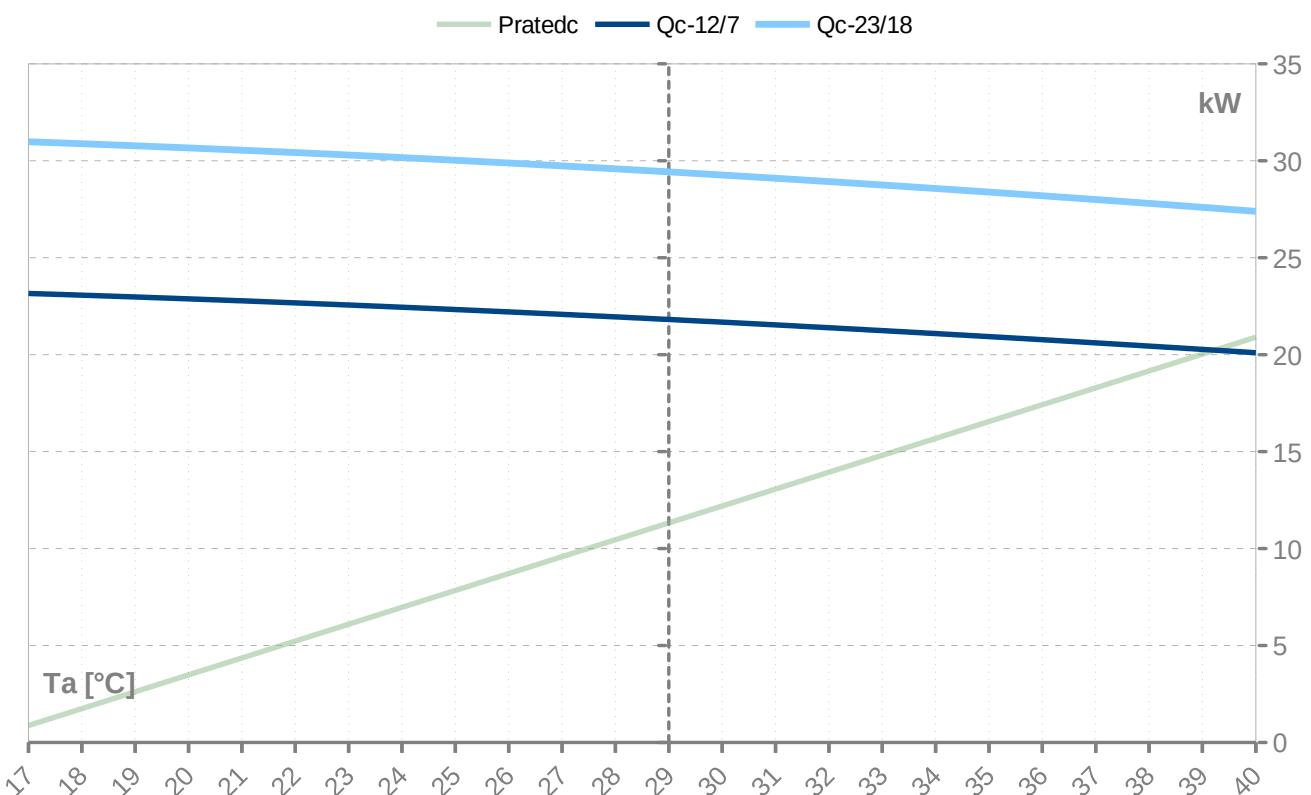
Operating conditions		Qc	P	EER
A	A35 / W23-18	28.4	7.7	3.67
B	A30 / W23-18	29.3	6.1	4.26
C	A25 / W23-18	30.0	5.4	4.93
D	A20 / W23-18	30.7	4.6	5.68

SEER DATA EN 14825:2018 [ W 23 / 18°C ]	
SEERon	4.80
SEER	4.61
Qc [ kWh ]	12540.00
η [ % ]	184.29

## Performance lines - heating



## Performance lines - cooling



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>37.6</b>	37.6		<b>6.0</b>	6.0		<b>6.30</b>	11.9	11.9	
24	<b>37.6</b>	37.6		<b>6.0</b>	6.0		<b>6.30</b>	11.9	11.9	
23	<b>37.6</b>	37.6		<b>6.0</b>	6.0		<b>6.30</b>	11.9	11.9	
22	<b>37.6</b>	37.6		<b>6.0</b>	6.0		<b>6.30</b>	11.9	11.9	
21	<b>37.6</b>	37.6		<b>6.0</b>	6.0		<b>6.30</b>	11.9	11.9	
20	<b>37.6</b>	37.6		<b>6.0</b>	6.0		<b>6.30</b>	11.9	11.9	
19	<b>37.6</b>	37.6		<b>6.0</b>	6.0		<b>6.30</b>	11.9	11.9	
18	<b>37.6</b>	37.6		<b>6.0</b>	6.0		<b>6.30</b>	11.9	11.9	
17	<b>37.6</b>	37.6		<b>6.0</b>	6.0		<b>6.30</b>	11.9	11.9	
16	<b>36.8</b>	36.8	36.8	<b>6.0</b>	6.0	6.0	<b>6.12</b>	12.0	12.0	12.0
15	<b>36.0</b>	36.0	36.0	<b>6.1</b>	6.1	6.1	<b>5.95</b>	12.0	12.0	12.0
14	<b>35.3</b>	35.3	35.3	<b>6.1</b>	6.1	6.1	<b>5.79</b>	12.0	12.0	12.0
13	<b>34.6</b>	34.6	34.6	<b>6.1</b>	6.1	6.1	<b>5.63</b>	12.1	12.1	12.1
12	<b>33.8</b>	33.8	33.8	<b>6.2</b>	6.2	6.2	<b>5.48</b>	12.1	12.1	12.1
11	<b>33.1</b>	33.1	33.1	<b>6.2</b>	6.2	6.2	<b>5.33</b>	12.2	12.2	12.2
10	<b>32.4</b>	32.4	32.4	<b>6.2</b>	6.2	6.2	<b>5.19</b>	12.2	12.2	12.2
9	<b>31.2</b>	31.2	31.2	<b>6.3</b>	6.3	6.3	<b>4.96</b>	12.2	12.2	12.2
8	<b>30.1</b>	30.1	30.1	<b>6.3</b>	6.3	6.3	<b>4.75</b>	12.3	12.3	12.3
7	<b>29.0</b>	29.0	29.0	<b>6.4</b>	6.4	6.4	<b>4.56</b>	12.3	12.3	12.3
6	<b>28.0</b>	28.0	28.0	<b>6.4</b>	6.4	6.4	<b>4.39</b>	12.3	12.3	12.3
5	<b>27.1</b>	27.1	27.1	<b>6.4</b>	6.4	6.4	<b>4.23</b>	12.4	12.4	12.4
4	<b>26.2</b>	26.2	26.2	<b>6.4</b>	6.4	6.4	<b>4.08</b>	12.4	12.4	12.4
3	<b>25.4</b>	25.4	25.4	<b>6.4</b>	6.4	6.4	<b>3.95</b>	12.4	12.4	12.4
2	<b>24.7</b>	24.7	24.7	<b>6.4</b>	6.4	6.4	<b>3.83</b>	12.4	12.4	12.4
1	<b>24.0</b>	24.0	24.0	<b>6.4</b>	6.4	6.4	<b>3.72</b>	12.4	12.4	12.4
0	<b>23.4</b>	23.4	23.4	<b>6.4</b>	6.4	6.4	<b>3.62</b>	12.4	12.4	12.4
-1	<b>22.8</b>	22.8	22.8	<b>6.4</b>	6.4	6.4	<b>3.53</b>	12.5	12.5	12.5
-2	<b>22.3</b>	22.3	22.3	<b>6.4</b>	6.4	6.4	<b>3.45</b>	12.5	12.5	12.5
-3	<b>21.8</b>	21.8	21.8	<b>6.4</b>	6.4	6.4	<b>3.38</b>	12.5	12.5	12.5
-4	<b>21.4</b>	21.4	21.4	<b>6.4</b>	6.4	6.4	<b>3.31</b>	12.5	12.5	12.5
-5	<b>21.0</b>	21.0	21.0	<b>6.4</b>	6.4	6.4	<b>3.26</b>	12.5	12.5	12.5
-6	<b>20.6</b>	20.6	20.6	<b>6.4</b>	6.4	6.4	<b>3.20</b>	12.5	12.5	12.5
-7	<b>20.4</b>	20.4	20.4	<b>6.4</b>	6.4	6.4	<b>3.16</b>	12.5	12.5	12.5
-8	<b>20.1</b>	20.1	20.1	<b>6.4</b>	6.4	6.4	<b>3.12</b>	12.5	12.5	12.5
-9	<b>19.9</b>	19.9	19.9	<b>6.4</b>	6.4	6.4	<b>3.09</b>	12.5	12.5	12.5
-10	<b>19.7</b>	19.7	19.7	<b>6.4</b>	6.4	6.4	<b>3.06</b>	12.5	12.5	12.5
-11	<b>19.2</b>	19.2	19.2	<b>6.4</b>	6.4	6.4	<b>2.98</b>	12.5	12.5	12.5
-12	<b>18.7</b>	18.7	18.7	<b>6.4</b>	6.4	6.4	<b>2.91</b>	12.5	12.5	12.5
-13	<b>18.2</b>	18.2	18.2	<b>6.4</b>	6.4	6.4	<b>2.83</b>	12.5	12.5	12.5
-14	<b>17.7</b>	17.7	17.7	<b>6.4</b>	6.4	6.4	<b>2.75</b>	12.5	12.5	12.5
-15	<b>17.2</b>	17.2	17.2	<b>6.4</b>	6.4	6.4	<b>2.68</b>	12.4	12.4	12.4
-16	<b>16.7</b>	16.7	16.7	<b>6.4</b>	6.4	6.4	<b>2.61</b>	12.4	12.4	12.4
-17	<b>16.2</b>	16.2	16.2	<b>6.4</b>	6.4	6.4	<b>2.54</b>	12.4	12.4	12.4
-18	<b>15.8</b>	15.8	15.8	<b>6.4</b>	6.4	6.4	<b>2.47</b>	12.4	12.4	12.4
-19	<b>15.3</b>	15.3	15.3	<b>6.4</b>	6.4	6.4	<b>2.40</b>	12.4	12.4	12.4
-20	<b>14.9</b>	14.9	14.9	<b>6.4</b>	6.4	6.4	<b>2.33</b>	12.4	12.4	12.4
-21	<b>14.4</b>	14.4	14.4	<b>6.4</b>	6.4	6.4	<b>2.27</b>	12.4	12.4	12.4
-22	<b>14.0</b>	14.0	14.0	<b>6.4</b>	6.4	6.4	<b>2.20</b>	12.3	12.3	12.3
-23	<b>13.6</b>	13.6	13.6	<b>6.4</b>	6.4	6.4	<b>2.14</b>	12.3	12.3	12.3
-24	<b>13.2</b>	13.2	13.2	<b>6.3</b>	6.3	6.3	<b>2.08</b>	12.3	12.3	12.3
-25	<b>12.8</b>	12.8	12.8	<b>6.3</b>	6.3	6.3	<b>2.02</b>	12.3	12.3	12.3

\* attention: operating limits not reflected in performance table

ZHI27K1P-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	<b>43.8</b>	43.8	43.8	<b>7.5</b>	7.5	7.5	<b>5.84</b>	13.5	13.5	13.5	
24	<b>42.9</b>	42.9	42.9	<b>7.5</b>	7.5	7.5	<b>5.69</b>	13.5	13.5	13.5	
23	<b>42.1</b>	42.1	42.1	<b>7.6</b>	7.6	7.6	<b>5.54</b>	13.6	13.6	13.6	
22	<b>41.3</b>	41.3	41.3	<b>7.7</b>	7.7	7.7	<b>5.40</b>	13.7	13.7	13.7	
21	<b>40.5</b>	40.5	40.5	<b>7.7</b>	7.7	7.7	<b>5.26</b>	13.7	13.7	13.7	
20	<b>39.8</b>	39.8	39.8	<b>7.7</b>	7.7	7.7	<b>5.13</b>	13.8	13.8	13.8	
19	<b>39.0</b>	39.0	39.0	<b>7.8</b>	7.8	7.8	<b>5.00</b>	13.8	13.8	13.8	
18	<b>38.2</b>	38.2	38.2	<b>7.8</b>	7.8	7.8	<b>4.88</b>	13.8	13.8	13.8	
17	<b>37.4</b>	37.4	37.4	<b>7.9</b>	7.9	7.9	<b>4.76</b>	13.9	13.9	13.9	
16	<b>36.7</b>	36.7	36.7	<b>7.9</b>	7.9	7.9	<b>4.64</b>	13.9	13.9	13.9	
15	<b>35.9</b>	35.9	35.9	<b>7.9</b>	7.9	7.9	<b>4.53</b>	14.0	14.0	14.0	
14	<b>35.2</b>	35.2	35.2	<b>8.0</b>	8.0	8.0	<b>4.42</b>	14.0	14.0	14.0	
13	<b>34.5</b>	34.5	34.5	<b>8.0</b>	8.0	8.0	<b>4.32</b>	14.0	14.0	14.0	
12	<b>33.8</b>	33.8	33.8	<b>8.0</b>	8.0	8.0	<b>4.22</b>	14.1	14.1	14.1	
11	<b>33.1</b>	33.1	33.1	<b>8.0</b>	8.0	8.0	<b>4.12</b>	14.1	14.1	14.1	
10	<b>32.4</b>	32.4	32.4	<b>8.1</b>	8.1	8.1	<b>4.02</b>	14.1	14.1	14.1	
9	<b>31.2</b>	31.2	31.2	<b>8.1</b>	8.1	8.1	<b>3.86</b>	14.2	14.2	14.2	
8	<b>30.1</b>	30.1	30.1	<b>8.1</b>	8.1	8.1	<b>3.72</b>	14.2	14.2	14.2	
7	<b>29.1</b>	29.1	29.1	<b>8.1</b>	8.1	8.1	<b>3.58</b>	14.2	14.2	14.2	
6	<b>28.1</b>	28.1	28.1	<b>8.1</b>	8.1	8.1	<b>3.45</b>	14.3	14.3	14.3	
5	<b>27.2</b>	27.2	27.2	<b>8.1</b>	8.1	8.1	<b>3.34</b>	14.3	14.3	14.3	
4	<b>26.3</b>	26.3	26.3	<b>8.1</b>	8.1	8.1	<b>3.23</b>	14.3	14.3	14.3	
3	<b>25.5</b>	25.5	25.5	<b>8.1</b>	8.1	8.1	<b>3.14</b>	14.3	14.3	14.3	
2	<b>24.8</b>	24.8	24.8	<b>8.1</b>	8.1	8.1	<b>3.05</b>	14.3	14.3	14.3	
1	<b>24.2</b>	24.2	24.2	<b>8.1</b>	8.1	8.1	<b>2.96</b>	14.3	14.3	14.3	
0	<b>23.5</b>	23.5	23.5	<b>8.1</b>	8.1	8.1	<b>2.89</b>	14.3	14.3	14.3	
-1	<b>23.0</b>	23.0	23.0	<b>8.1</b>	8.1	8.1	<b>2.82</b>	14.3	14.3	14.3	
-2	<b>22.5</b>	22.5	22.5	<b>8.1</b>	8.1	8.1	<b>2.76</b>	14.3	14.3	14.3	
-3	<b>22.0</b>	22.0	22.0	<b>8.1</b>	8.1	8.1	<b>2.70</b>	14.3	14.3	14.3	
-4	<b>21.6</b>	21.6	21.6	<b>8.1</b>	8.1	8.1	<b>2.65</b>	14.3	14.3	14.3	
-5	<b>21.2</b>	21.2	21.2	<b>8.1</b>	8.1	8.1	<b>2.61</b>	14.3	14.3	14.3	
-6	<b>20.9</b>	20.9	20.9	<b>8.1</b>	8.1	8.1	<b>2.57</b>	14.3	14.3	14.3	
-7	<b>20.6</b>	20.6	20.6	<b>8.1</b>	8.1	8.1	<b>2.54</b>	14.3	14.3	14.3	
-8	<b>20.4</b>	20.4	20.4	<b>8.1</b>	8.1	8.1	<b>2.51</b>	14.3	14.3	14.3	
-9	<b>20.2</b>	20.2	20.2	<b>8.1</b>	8.1	8.1	<b>2.48</b>	14.3	14.3	14.3	
-10	<b>20.0</b>	20.0	20.0	<b>8.1</b>	8.1	8.1	<b>2.46</b>	14.3	14.3	14.3	
-11	<b>19.5</b>	19.5	19.5	<b>8.1</b>	8.1	8.1	<b>2.40</b>	14.3	14.3	14.3	
-12	<b>19.0</b>	19.0	19.0	<b>8.1</b>	8.1	8.1	<b>2.34</b>	14.3	14.3	14.3	
-13	<b>18.5</b>	18.5	18.5	<b>8.1</b>	8.1	8.1	<b>2.28</b>	14.3	14.3	14.3	
-14	<b>18.0</b>	18.0	18.0	<b>8.1</b>	8.1	8.1	<b>2.22</b>	14.2	14.2	14.2	
-15	<b>17.5</b>	17.5	17.5	<b>8.1</b>	8.1	8.1	<b>2.16</b>	14.2	14.2	14.2	
-16	<b>17.1</b>	17.1	17.1	<b>8.1</b>	8.1	8.1	<b>2.11</b>	14.2	14.2	14.2	
-17	<b>16.6</b>	16.6	16.6	<b>8.1</b>	8.1	8.1	<b>2.05</b>	14.2	14.2	14.2	
-18	<b>16.2</b>	16.2	16.2	<b>8.1</b>	8.1	8.1	<b>2.00</b>	14.1	14.1	14.1	
-19	<b>15.7</b>	15.7	15.7	<b>8.1</b>	8.1	8.1	<b>1.94</b>	14.1	14.1	14.1	
-20	<b>15.3</b>	15.3	15.3	<b>8.1</b>	8.1	8.1	<b>1.89</b>	14.1	14.1	14.1	
-21	<b>14.9</b>	14.9	14.9	<b>8.1</b>	8.1	8.1	<b>1.84</b>	14.1	14.1	14.1	
-22	<b>14.5</b>	14.5	14.5	<b>8.1</b>	8.1	8.1	<b>1.79</b>	14.0	14.0	14.0	
-23	<b>14.1</b>	14.1	14.1	<b>8.1</b>	8.1	8.1	<b>1.74</b>	14.0	14.0	14.0	
-24	<b>13.7</b>	13.7	13.7	<b>8.1</b>	8.1	8.1	<b>1.69</b>	14.0	14.0	14.0	
-25	<b>13.3</b>	13.3	13.3	<b>8.1</b>	8.1	8.1	<b>1.64</b>	13.9	13.9	13.9	

\* 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	<b>43.4</b>	43.4	43.4	<b>10.0</b>	10.0	10.0	<b>4.33</b>	16.3	16.3	16.3
24	<b>42.6</b>	42.6	42.6	<b>10.1</b>	10.1	10.1	<b>4.23</b>	16.4	16.4	16.4
23	<b>41.8</b>	41.8	41.8	<b>10.1</b>	10.1	10.1	<b>4.14</b>	16.4	16.4	16.4
22	<b>41.0</b>	41.0	41.0	<b>10.1</b>	10.1	10.1	<b>4.05</b>	16.5	16.5	16.5
21	<b>40.3</b>	40.3	40.3	<b>10.2</b>	10.2	10.2	<b>3.96</b>	16.5	16.5	16.5
20	<b>39.5</b>	39.5	39.5	<b>10.2</b>	10.2	10.2	<b>3.87</b>	16.6	16.6	16.6
19	<b>38.8</b>	38.8	38.8	<b>10.2</b>	10.2	10.2	<b>3.79</b>	16.6	16.6	16.6
18	<b>38.0</b>	38.0	38.0	<b>10.3</b>	10.3	10.3	<b>3.71</b>	16.7	16.7	16.7
17	<b>37.3</b>	37.3	37.3	<b>10.3</b>	10.3	10.3	<b>3.63</b>	16.7	16.7	16.7
16	<b>36.6</b>	36.6	36.6	<b>10.3</b>	10.3	10.3	<b>3.55</b>	16.8	16.8	16.8
15	<b>35.9</b>	35.9	35.9	<b>10.3</b>	10.3	10.3	<b>3.47</b>	16.8	16.8	16.8
14	<b>35.2</b>	35.2	35.2	<b>10.4</b>	10.4	10.4	<b>3.40</b>	16.8	16.8	16.8
13	<b>34.5</b>	34.5	34.5	<b>10.4</b>	10.4	10.4	<b>3.32</b>	16.9	16.9	16.9
12	<b>33.8</b>	33.8	33.8	<b>10.4</b>	10.4	10.4	<b>3.25</b>	16.9	16.9	16.9
11	<b>33.1</b>	33.1	33.1	<b>10.4</b>	10.4	10.4	<b>3.18</b>	16.9	16.9	16.9
10	<b>32.4</b>	32.4	32.4	<b>10.4</b>	10.4	10.4	<b>3.12</b>	16.9	16.9	16.9
9	<b>31.3</b>	31.3	31.3	<b>10.4</b>	10.4	10.4	<b>3.00</b>	17.0	17.0	17.0
8	<b>30.3</b>	30.3	30.3	<b>10.4</b>	10.4	10.4	<b>2.90</b>	17.0	17.0	17.0
7	<b>29.3</b>	29.3	29.3	<b>10.5</b>	10.5	10.5	<b>2.80</b>	17.0	17.0	17.0
6	<b>28.3</b>	28.3	28.3	<b>10.5</b>	10.5	10.5	<b>2.71</b>	17.0	17.0	17.0
5	<b>27.5</b>	27.5	27.5	<b>10.5</b>	10.5	10.5	<b>2.62</b>	17.0	17.0	17.0
4	<b>26.7</b>	26.7	26.7	<b>10.5</b>	10.5	10.5	<b>2.55</b>	17.0	17.0	17.0
3	<b>25.9</b>	25.9	25.9	<b>10.5</b>	10.5	10.5	<b>2.48</b>	17.0	17.0	17.0
2	<b>25.2</b>	25.2	25.2	<b>10.5</b>	10.5	10.5	<b>2.41</b>	17.0	17.0	17.0
1	<b>24.6</b>	24.6	24.6	<b>10.5</b>	10.5	10.5	<b>2.35</b>	17.0	17.0	17.0
0	<b>24.0</b>	24.0	24.0	<b>10.5</b>	10.5	10.5	<b>2.29</b>	17.0	17.0	17.0
-1	<b>23.5</b>	23.5	23.5	<b>10.5</b>	10.5	10.5	<b>2.24</b>	17.0	17.0	17.0
-2	<b>23.0</b>	23.0	23.0	<b>10.5</b>	10.5	10.5	<b>2.20</b>	17.0	17.0	17.0
-3	<b>22.6</b>	22.6	22.6	<b>10.5</b>	10.5	10.5	<b>2.15</b>	17.0	17.0	17.0
-4	<b>22.2</b>	22.2	22.2	<b>10.5</b>	10.5	10.5	<b>2.12</b>	17.0	17.0	17.0
-5	<b>21.8</b>	21.8	21.8	<b>10.5</b>	10.5	10.5	<b>2.08</b>	17.0	17.0	17.0
-6	<b>21.5</b>	21.5	21.5	<b>10.5</b>	10.5	10.5	<b>2.05</b>	17.0	17.0	17.0
-7	<b>21.2</b>	21.2	21.2	<b>10.5</b>	10.5	10.5	<b>2.03</b>	17.0	17.0	17.0
-8	<b>21.0</b>	21.0	21.0	<b>10.5</b>	10.5	10.5	<b>2.01</b>	16.9	16.9	16.9
-9	<b>20.8</b>	20.8	20.8	<b>10.5</b>	10.5	10.5	<b>1.99</b>	16.9	16.9	16.9
-10	<b>20.7</b>	20.7	20.7	<b>10.5</b>	10.5	10.5	<b>1.97</b>	16.9	16.9	16.9
-11	<b>20.2</b>	20.2	20.2	<b>10.5</b>	10.5	10.5	<b>1.93</b>	16.9	16.9	16.9
-12	<b>19.7</b>	19.7	19.7	<b>10.5</b>	10.5	10.5	<b>1.88</b>	16.9	16.9	16.9
-13	<b>19.2</b>	19.2	19.2	<b>10.5</b>	10.5	10.5	<b>1.84</b>	16.9	16.9	16.9
-14	<b>18.8</b>	18.8	18.8	<b>10.5</b>	10.5	10.5	<b>1.79</b>	16.8	16.8	16.8
-15	<b>18.3</b>	18.3	18.3	<b>10.5</b>	10.5	10.5	<b>1.75</b>	16.8	16.8	16.8
-16	<b>17.9</b>	17.9	17.9	<b>10.5</b>	10.5	10.5	<b>1.71</b>	16.8	16.8	16.8
-17	<b>17.5</b>	17.5	17.5	<b>10.5</b>	10.5	10.5	<b>1.66</b>	16.7	16.7	16.7
-18	<b>17.0</b>	17.0	17.0	<b>10.5</b>	10.5	10.5	<b>1.62</b>	16.7	16.7	16.7
-19	<b>16.6</b>	16.6	16.6	<b>10.5</b>	10.5	10.5	<b>1.58</b>	16.6	16.6	16.6
-20	<b>16.2</b>	16.2	16.2	<b>10.5</b>	10.5	10.5	<b>1.54</b>	16.6	16.6	16.6
-21	<b>15.8</b>	15.8	15.8	<b>10.5</b>	10.5	10.5	<b>1.51</b>	16.6	16.6	16.6
-22	<b>15.5</b>	15.5	15.5	<b>10.5</b>	10.5	10.5	<b>1.47</b>	16.5	16.5	16.5
-23	<b>15.1</b>	15.1	15.1	<b>10.6</b>	10.6	10.6	<b>1.43</b>	16.5	16.5	16.5
-24	<b>14.7</b>	14.7	14.7	<b>10.6</b>	10.6	10.6	<b>1.39</b>	16.4	16.4	16.4
-25	<b>14.4</b>	14.4	14.4	<b>10.6</b>	10.6	10.6	<b>1.36</b>	16.4	16.4	16.4

\* attention: operating limits not reflected in performance table

Th [°C]			T-Max @ 65 °C								
Ta [°C]	Qh nom [kW]	Qh min [kW]	Qh max [kW]	Pin nom [kW]	Pin-min [kW]	Pin-max [kW]	COP kW / kW	I nom [A]	I min [A]	I max [A]	
25	<b>43.1</b>	43.1	43.1	<b>13.2</b>	13.2	13.2	<b>3.26</b>	20.3	20.3	20.3	
24	<b>42.4</b>	42.4	42.4	<b>13.3</b>	13.3	13.3	<b>3.19</b>	20.3	20.3	20.3	
23	<b>41.7</b>	41.7	41.7	<b>13.3</b>	13.3	13.3	<b>3.13</b>	20.4	20.4	20.4	
22	<b>40.9</b>	40.9	40.9	<b>13.3</b>	13.3	13.3	<b>3.07</b>	20.4	20.4	20.4	
21	<b>40.2</b>	40.2	40.2	<b>13.4</b>	13.4	13.4	<b>3.01</b>	20.5	20.5	20.5	
20	<b>39.5</b>	39.5	39.5	<b>13.4</b>	13.4	13.4	<b>2.95</b>	20.5	20.5	20.5	
19	<b>38.8</b>	38.8	38.8	<b>13.4</b>	13.4	13.4	<b>2.89</b>	20.5	20.5	20.5	
18	<b>38.1</b>	38.1	38.1	<b>13.4</b>	13.4	13.4	<b>2.84</b>	20.6	20.6	20.6	
17	<b>37.4</b>	37.4	37.4	<b>13.4</b>	13.4	13.4	<b>2.78</b>	20.6	20.6	20.6	
16	<b>36.7</b>	36.7	36.7	<b>13.5</b>	13.5	13.5	<b>2.73</b>	20.6	20.6	20.6	
15	<b>36.1</b>	36.1	36.1	<b>13.5</b>	13.5	13.5	<b>2.67</b>	20.7	20.7	20.7	
14	<b>35.4</b>	35.4	35.4	<b>13.5</b>	13.5	13.5	<b>2.62</b>	20.7	20.7	20.7	
13	<b>34.7</b>	34.7	34.7	<b>13.5</b>	13.5	13.5	<b>2.57</b>	20.7	20.7	20.7	
12	<b>34.1</b>	34.1	34.1	<b>13.5</b>	13.5	13.5	<b>2.52</b>	20.7	20.7	20.7	
11	<b>33.5</b>	33.5	33.5	<b>13.5</b>	13.5	13.5	<b>2.47</b>	20.8	20.8	20.8	
10	<b>32.8</b>	32.8	32.8	<b>13.5</b>	13.5	13.5	<b>2.42</b>	20.8	20.8	20.8	
9	<b>31.8</b>	31.8	31.8	<b>13.6</b>	13.6	13.6	<b>2.34</b>	20.8	20.8	20.8	
8	<b>30.8</b>	30.8	30.8	<b>13.6</b>	13.6	13.6	<b>2.27</b>	20.8	20.8	20.8	
7	<b>29.9</b>	29.9	29.9	<b>13.6</b>	13.6	13.6	<b>2.20</b>	20.8	20.8	20.8	
6	<b>29.0</b>	29.0	29.0	<b>13.6</b>	13.6	13.6	<b>2.13</b>	20.8	20.8	20.8	
5	<b>28.2</b>	28.2	28.2	<b>13.6</b>	13.6	13.6	<b>2.07</b>	20.8	20.8	20.8	
4	<b>27.5</b>	27.5	27.5	<b>13.6</b>	13.6	13.6	<b>2.02</b>	20.8	20.8	20.8	
3	<b>26.8</b>	26.8	26.8	<b>13.6</b>	13.6	13.6	<b>1.97</b>	20.8	20.8	20.8	
2	<b>26.1</b>	26.1	26.1	<b>13.6</b>	13.6	13.6	<b>1.92</b>	20.8	20.8	20.8	
1	<b>25.6</b>	25.6	25.6	<b>13.6</b>	13.6	13.6	<b>1.87</b>	20.8	20.8	20.8	
0	<b>25.0</b>	25.0	25.0	<b>13.6</b>	13.6	13.6	<b>1.83</b>	20.7	20.7	20.7	
-1	<b>24.5</b>	24.5	24.5	<b>13.7</b>	13.7	13.7	<b>1.80</b>	20.7	20.7	20.7	
-2	<b>24.1</b>	24.1	24.1	<b>13.7</b>	13.7	13.7	<b>1.76</b>	20.7	20.7	20.7	
-3	<b>23.7</b>	23.7	23.7	<b>13.7</b>	13.7	13.7	<b>1.73</b>	20.7	20.7	20.7	
-4	<b>23.3</b>	23.3	23.3	<b>13.7</b>	13.7	13.7	<b>1.71</b>	20.7	20.7	20.7	
-5	<b>23.0</b>	23.0	23.0	<b>13.7</b>	13.7	13.7	<b>1.68</b>	20.6	20.6	20.6	
-6	<b>22.7</b>	22.7	22.7	<b>13.7</b>	13.7	13.7	<b>1.66</b>	20.6	20.6	20.6	
-7	<b>22.5</b>	22.5	22.5	<b>13.7</b>	13.7	13.7	<b>1.64</b>	20.6	20.6	20.6	
-8	<b>22.3</b>	22.3	22.3	<b>13.7</b>	13.7	13.7	<b>1.63</b>	20.6	20.6	20.6	
-9	<b>22.1</b>	22.1	22.1	<b>13.7</b>	13.7	13.7	<b>1.61</b>	20.6	20.6	20.6	
-10	<b>21.9</b>	21.9	21.9	<b>13.7</b>	13.7	13.7	<b>1.60</b>	20.6	20.6	20.6	
-11	<b>21.5</b>	21.5	21.5	<b>13.7</b>	13.7	13.7	<b>1.57</b>	20.5	20.5	20.5	
-12	<b>21.1</b>	21.1	21.1	<b>13.7</b>	13.7	13.7	<b>1.53</b>	20.5	20.5	20.5	
-13	<b>20.6</b>	20.6	20.6	<b>13.7</b>	13.7	13.7	<b>1.50</b>	20.4	20.4	20.4	
-14	<b>20.2</b>	20.2	20.2	<b>13.8</b>	13.8	13.8	<b>1.47</b>	20.4	20.4	20.4	
-15	<b>19.8</b>	19.8	19.8	<b>13.8</b>	13.8	13.8	<b>1.44</b>	20.4	20.4	20.4	
-16											
-17											
-18											
-19											
-20											
-21											
-22											
-23											
-24											
-25											

\* attention: operating limits not reflected in performance table

Tc [°C]			W 12 / 7 °C								
Ta [°C]	Qc nom [kW]	Qc min [kW]	Qc max [kW]	Pin [kW]	Pin min [kW]	Pin max [kW]	EER kW / kW	I nom [A]	I min [A]	I max [A]	
40	<b>20.1</b>	20.1	20.1	<b>8.8</b>	8.8	8.8	<b>2.29</b>	15.0	15.0	15.0	
39	<b>20.3</b>	20.3	20.3	<b>8.5</b>	8.5	8.5	<b>2.37</b>	14.7	14.7	14.7	
38	<b>20.4</b>	20.4	20.4	<b>8.3</b>	8.3	8.3	<b>2.45</b>	14.5	14.5	14.5	
37	<b>20.6</b>	20.6	20.6	<b>8.1</b>	8.1	8.1	<b>2.53</b>	14.3	14.3	14.3	
36	<b>20.8</b>	20.8	20.8	<b>7.9</b>	7.9	7.9	<b>2.62</b>	14.0	14.0	14.0	
35	<b>20.9</b>	20.9	20.9	<b>7.7</b>	7.7	7.7	<b>2.70</b>	13.8	13.8	13.8	
34	<b>21.1</b>	21.1	21.1	<b>7.6</b>	7.6	7.6	<b>2.79</b>	13.6	13.6	13.6	
33	<b>21.2</b>	21.2	21.2	<b>7.4</b>	7.4	7.4	<b>2.88</b>	13.4	13.4	13.4	
32	<b>21.4</b>	21.4	21.4	<b>7.2</b>	7.2	7.2	<b>2.97</b>	13.2	13.2	13.2	
31	<b>21.5</b>	21.5	21.5	<b>7.0</b>	7.0	7.0	<b>3.06</b>	13.0	13.0	13.0	
30	<b>21.7</b>	21.7	21.7	<b>6.9</b>	6.9	6.9	<b>3.16</b>	12.8	12.8	12.8	
29	<b>21.8</b>	21.8	21.8	<b>6.7</b>	6.7	6.7	<b>3.26</b>	12.7	12.7	12.7	
28	<b>21.9</b>	21.9	21.9	<b>6.5</b>	6.5	6.5	<b>3.35</b>	12.5	12.5	12.5	
27	<b>22.1</b>	22.1	22.1	<b>6.4</b>	6.4	6.4	<b>3.46</b>	12.4	12.4	12.4	
26	<b>22.2</b>	22.2	22.2	<b>6.2</b>	6.2	6.2	<b>3.56</b>	12.2	12.2	12.2	
25	<b>22.3</b>	22.3	22.3	<b>6.1</b>	6.1	6.1	<b>3.67</b>	12.1	12.1	12.1	
24	<b>22.4</b>	22.4	22.4	<b>5.9</b>	5.9	5.9	<b>3.77</b>	11.9	11.9	11.9	
23	<b>22.6</b>	22.6	22.6	<b>5.8</b>	5.8	5.8	<b>3.89</b>	11.8	11.8	11.8	
22	<b>22.7</b>	22.7	22.7	<b>5.7</b>	5.7	5.7	<b>4.00</b>	11.7	11.7	11.7	
21	<b>22.8</b>	22.8	22.8	<b>5.5</b>	5.5	5.5	<b>4.12</b>	11.5	11.5	11.5	
20	<b>22.9</b>	22.9	22.9	<b>5.4</b>	5.4	5.4	<b>4.24</b>	11.4	11.4	11.4	
19	<b>23.0</b>	23.0	23.0	<b>5.3</b>	5.3	5.3	<b>4.36</b>	11.3	11.3	11.3	
18	<b>23.1</b>	23.1	23.1	<b>5.1</b>	5.1	5.1	<b>4.49</b>	11.2	11.2	11.2	
17	<b>23.2</b>	23.2	23.2	<b>5.0</b>	5.0	5.0	<b>4.62</b>	11.1	11.1	11.1	

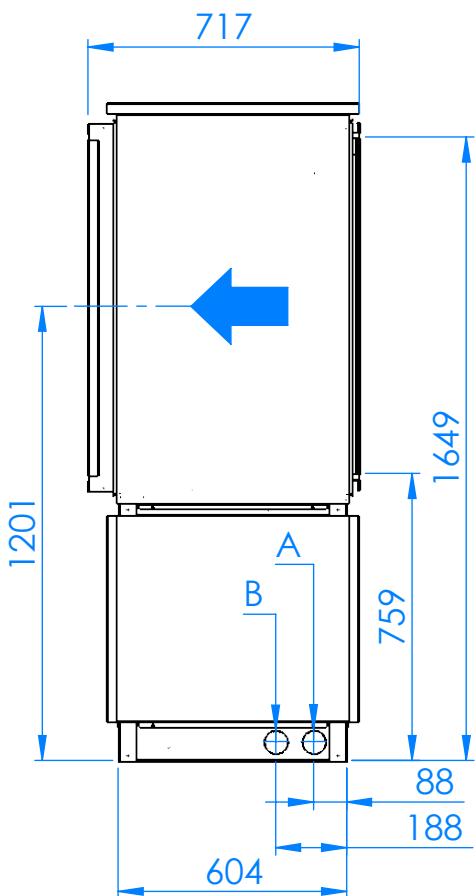
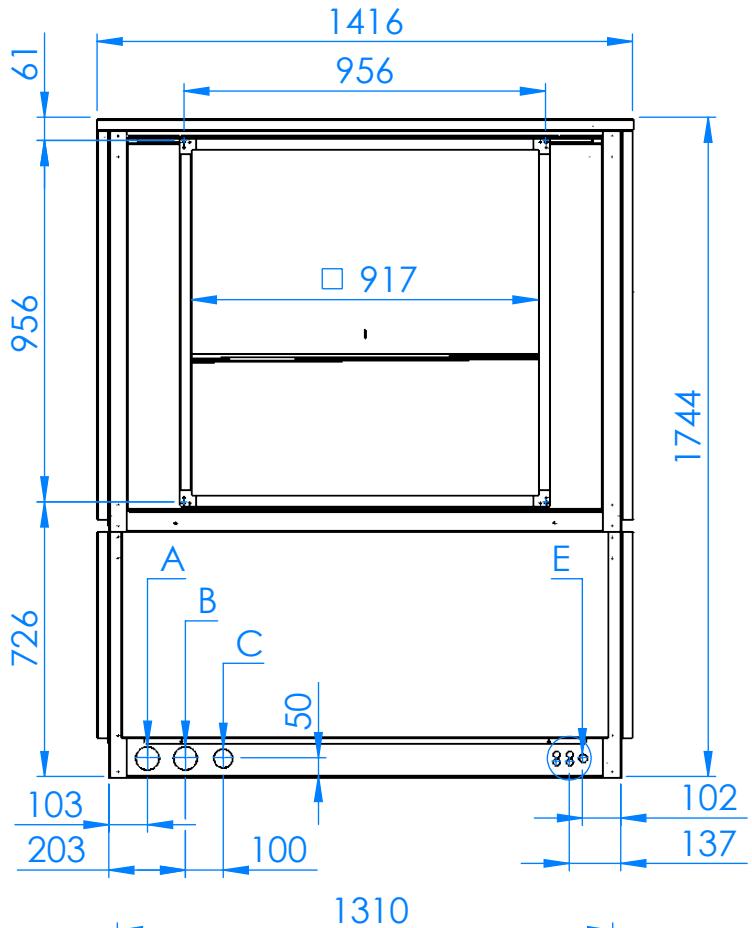
Tc [°C]			W 23 / 18 °C								
Ta [°C]	Qc [kW]	Qh-min [kW]	Qh-max [kW]	Pin [kW]	Pin-min [kW]	Pin-max [kW]	EER kW / kW	I [A]	I-min [A]	I-max [A]	
40	<b>27.4</b>	27.4	27.4	<b>8.8</b>	8.8	8.8	<b>3.13</b>	14.8	14.8	14.8	
39	<b>27.6</b>	27.6	27.6	<b>8.5</b>	8.5	8.5	<b>3.23</b>	14.5	14.5	14.5	
38	<b>27.8</b>	27.8	27.8	<b>8.3</b>	8.3	8.3	<b>3.34</b>	14.2	14.2	14.2	
37	<b>28.0</b>	28.0	28.0	<b>8.1</b>	8.1	8.1	<b>3.44</b>	14.0	14.0	14.0	
36	<b>28.2</b>	28.2	28.2	<b>7.9</b>	7.9	7.9	<b>3.55</b>	13.8	13.8	13.8	
35	<b>28.4</b>	28.4	28.4	<b>7.7</b>	7.7	7.7	<b>3.67</b>	13.6	13.6	13.6	
34	<b>28.6</b>	28.6	28.6	<b>7.6</b>	7.6	7.6	<b>3.78</b>	13.3	13.3	13.3	
33	<b>28.7</b>	28.7	28.7	<b>7.4</b>	7.4	7.4	<b>3.90</b>	13.1	13.1	13.1	
32	<b>28.9</b>	28.9	28.9	<b>7.2</b>	7.2	7.2	<b>4.02</b>	12.9	12.9	12.9	
31	<b>29.1</b>	29.1	29.1	<b>7.0</b>	7.0	7.0	<b>4.14</b>	12.7	12.7	12.7	
30	<b>29.3</b>	29.3	29.3	<b>6.9</b>	6.9	6.9	<b>4.26</b>	12.6	12.6	12.6	
29	<b>29.4</b>	29.4	29.4	<b>6.7</b>	6.7	6.7	<b>4.39</b>	12.4	12.4	12.4	
28	<b>29.6</b>	29.6	29.6	<b>6.5</b>	6.5	6.5	<b>4.52</b>	12.2	12.2	12.2	
27	<b>29.7</b>	29.7	29.7	<b>6.4</b>	6.4	6.4	<b>4.65</b>	12.1	12.1	12.1	
26	<b>29.9</b>	29.9	29.9	<b>6.2</b>	6.2	6.2	<b>4.79</b>	11.9	11.9	11.9	
25	<b>30.0</b>	30.0	30.0	<b>6.1</b>	6.1	6.1	<b>4.93</b>	11.7	11.7	11.7	
24	<b>30.2</b>	30.2	30.2	<b>5.9</b>	5.9	5.9	<b>5.07</b>	11.6	11.6	11.6	
23	<b>30.3</b>	30.3	30.3	<b>5.8</b>	5.8	5.8	<b>5.22</b>	11.5	11.5	11.5	
22	<b>30.4</b>	30.4	30.4	<b>5.7</b>	5.7	5.7	<b>5.37</b>	11.3	11.3	11.3	
21	<b>30.5</b>	30.5	30.5	<b>5.5</b>	5.5	5.5	<b>5.52</b>	11.2	11.2	11.2	
20	<b>30.7</b>	30.7	30.7	<b>5.4</b>	5.4	5.4	<b>5.68</b>	11.1	11.1	11.1	
19	<b>30.8</b>	30.8	30.8	<b>5.3</b>	5.3	5.3	<b>5.84</b>	11.0	11.0	11.0	
18	<b>30.9</b>	30.9	30.9	<b>5.1</b>	5.1	5.1	<b>6.01</b>	10.9	10.9	10.9	
17	<b>31.0</b>	31.0	31.0	<b>5.0</b>	5.0	5.0	<b>6.18</b>	10.8	10.8	10.8	

\* 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 AiWa 27 EVI H In



A -

B -

C - condens

E - electro

