



**WAMAK**

## Heat pump



**AiWa 23 EVI**

*H In*

# WAMAK AiWa 23 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 23 EVI H In

Heating - EN 14511		
<b>Heating capacity [kW]</b>	A7 / W35	26.0
	A2 / W35	22.2
	A-7 / W34	18.4
<b>Electrical power input [kW]</b>	A7 / W35	5.9
	A2 / W35	5.8
	A-7 / W34	5.5
<b>Heating efficiency faktor [COP]</b>	A7 / W35	4.40
	A2 / W35	3.84
	A-7 / W34	3.34
Seasonal space heating energy efficiency - SCOP EN 14825		
Average Climate / Low Temperature [35°C]	SCOP	4.24
	η [ % ]	169.6
	Label	A+++
	Qhe [ kWh ]	42972.8
	Pdesignh [ kW ]	20.8
	Tbivalent [ °C ]	-7
Cooling		
<b>Cooling capacity - [kW]</b>	A35 / W23-18	24.5
	A25 / W23-18	25.7
	A35 / W12-7	18.2
	A25 / W12-7	18.2
Seasonal space cooling energy efficiency - SEER EN 14825		
[ W 23 / 18°C ]	SEER	4.29
	Qce [ kWh ]	10920.0
	ηc [ % ]	171.6
Sound EN 12102		
<b>Acoustic power - Lw</b>	dB(A)	67.2
<b>Acoustic pressure - Lp</b>	<b>1 m</b> dB(A)	59.2
	<b>5 m</b> dB(A)	45.2
	<b>10 m</b> dB(A)	39.2
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>	315 kg	

## Main technical data - WAMAK AiWa 23 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]	315		Condenser	Port size	1.1/4 "	
Colour	Gray			Type	BPHE	
Enclosure IP Class	IP44			Count	1	
<b>Refrigeration cycle</b>				Material	AISI 316	
Compressor	Type	Scroll	Maximal operating pressure - refrigerant [bar]	45		
	Number of stages	1	Maximal operating pressure - Water [bar]	6		
	On/Off		Testing pressure [bar]	70		
	Power factor Cosφ	0.65	Heat transfer medium	Water		
	Winding resistance	1.38 Ohm	Volume flow @ dT 5K (nom) - Water [m³/h]	4.49		
Refrigerant	R410A			Internal pressure drop - Water [kPa]	14	
	Volme	7.9 kg	ECM speed circulator - condenser			
	GWP	2088	UPMXL GEO 32-125			
	Safety class	A1	Flow sensor consumer - analogue			
Refrigeration oil type	POE RL32-3MAF			Temperature difference @ 35°C (nom)	5 K	
	Oil volume	1.77 L	@ 55°C	8 K		
	Maximal pressure - refrigerant [bar]	45	@ 65°C	10 K		
PED class			<b>Renewable energy extraction side data</b>			
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	Port size	1200mm x 1200mm "	
Plate exchanger protection HG-BYPASS				Type	Cu-coil /Al-fin	
<b>Electrical connection data</b>				Count	1	
Line voltage [#~ V/Hz]				Material	Cu/Al	
Current	nominal [A]	11.80	Maximal operating pressure - refrigerant [bar]	28		
	maximal [A]	18.60	Heat transfer medium	Air		
	starting [A]	29.7	Volume flow - Air [m³/h]	8030		
Softstart			Internal pressure drop - Air [kPa]	0.032		
Main safety			Temperature difference - Air	7 K		
<b>Control System</b>			Number of fans	1		
Main controller	SIEMENS	RVS 21 AVS 55.199	Fan diameter [mm]	800		
Extension module	AVS75.3xx	AVS75.3xx				
AVS75.372						
Bus Clip-In	LPB OCI346					
	Modbus OCI352					
Online connection	Web server OZW672					
Superheat controller	1 - EEV H/C					
*** with accessory						

# WAMAK AiWa 23 EVI H In

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

Model	AiWa 23 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	20.8	kW	Seasonal space heating energy efficiency	ηs	169.6	%
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	18.4	kW	Tj = -7 °C	COPd	3.34	-
Tj = +2 °C	Pdh	22.0	kW	Tj = +2 °C	COPd	4.2	-
Tj = +7 °C	Pdh	25.8	kW	Tj = +7 °C	COPd	5.1	-
Tj = +12 °C	Pdh	30.3	kW	Tj = +12 °C	COPd	6.3	-
Tj = bivalent temperature	Pdh	17.8	kW	Tj = bivalent temperature	COPd	3.2	-
Tj = operation limit temperature	Pdh	13.0	kW	Tj = operation limit temperature	COPd	2.5	-
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	0.030	kW	Supplementary heater			
Thermostat-off mode	Pto	0.010	kW	Rated heat output	Psup	9.3	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	-	8030	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	42972.8	kWh
Sound power level							
indoors	Lwa	67	dB				
outdoors	Lwa	---	dB				

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Model	AiWa 23 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	22.1	kW	Seasonal space heating energy efficiency	ηs	135.5	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	19.3	kW	Tj = -7 °C	COPd	2.41	-
Tj = +2 °C	Pdh	22.4	kW	Tj = +2 °C	COPd	3.4	-
Tj = +7 °C	Pdh	26.0	kW	Tj = +7 °C	COPd	4.3	-
Tj = +12 °C	Pdh	30.3	kW	Tj = +12 °C	COPd	5.6	-
Tj = bivalent temperature	Pdh	19.0	kW	Tj = bivalent temperature	COPd	2.2	-
Tj = operation limit temperature	Pdh	14.4	kW	Tj = operation limit temperature	COPd	1.8	-
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	0.030	kW	Supplementary heater			
Thermostat-off mode	Pto	0.010	kW	Rated heat output	Psup	9.3	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	-	8030	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	45658.6	kWh
Sound power level							
indoors	Lwa	67	dB				
outdoors	Lwa	---	dB				

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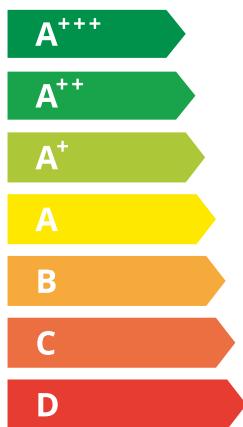
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AiWa 23 EVI H In



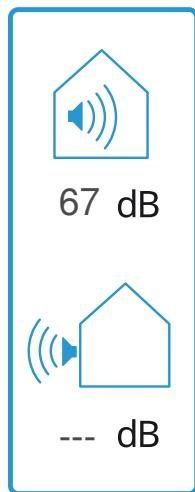
55 °C

35 °C

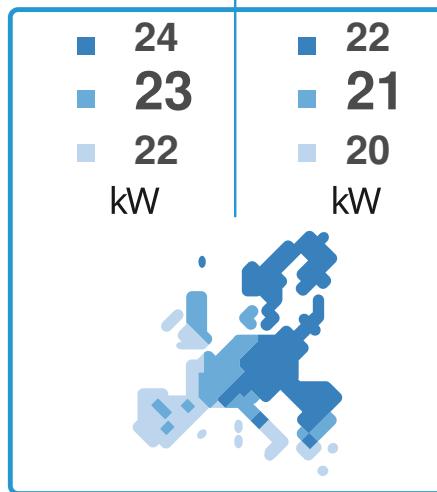


A++

A+++



2019



811/2013

AiWa 23 EVI H In

**ErP Data**

	55 °C	35 °C
Energy class	A++	A+++
η	[ % ]	135.5 169.6
P <sub>rated</sub>	[ kW ]	23 21
Q <sub>HE</sub>	[ kWh/y ]	45659 42973
SCOP	[ - ]	3.39 4.24
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]**

ZHI23K1P-TFM\_R410A\_1\_AW

Operating conditions		Qh	P	COP
1	A7 / W30-35	26.0	5.9	4.40
2	A2 / W35	22.2	5.8	3.84
3	A-22 / W35	13.0	5.2	2.49
A	A-7 / W34	18.4	5.5	3.34
B	A2 / W30	22.0	5.2	4.22
C	A7 / W27	25.8	5.0	5.15
D	A12 / W24	30.3	4.8	6.29
E	A-10 / W35	17.8	5.6	3.19
F	A-7 / W34	18.4	5.5	3.34

**SCOP DATA EN 14825:2018**

Average Climate / Low Temperature [35°C]	
SCOPon	4.37
SCOPnet	4.41
SCOP	4.24
η [ % ]	169.63
Label	A+++
Qh [ kWh ]	42972.80
Pdesignh [ kW ]	20.8
Tbivalent [ °C ]	-7.00

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

Operating conditions		Qh	P	COP
1	A7 / W47-55	26.5	9.0	2.93
2	A2 / W55	23.0	8.8	2.61
3	A-22 / W55	14.4	7.3	1.83
A	A-7 / W52	19.3	8.0	2.41
B	A2 / W42	22.4	6.7	3.36
C	A7 / W36	26.0	6.0	4.32
D	A12 / W30	30.3	5.4	5.60
E	A-10 / W55	19.0	8.5	2.24
F	A-7 / W55	19.5	8.5	2.29

**SCOP DATA EN 14825:2018**

Average Climate / Medium Temperature [55°C]	
SCOPon	3.47
SCOPnet	3.50
SCOP	3.39
η [ % ]	135.52
Label	A++
Qh [ kWh ]	45658.60
Pdesignh [ kW ]	22.1
Tbivalent [ °C ]	-7.00

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

Operating conditions		Qc	P	EER
A	A35 / W12-7	18.2	6.9	2.64
B	A30 / W12-7	18.7	6.2	3.00
C	A25 / W12-7	19.1	5.6	3.40
D	A20 / W12-7	19.4	5.1	3.83

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

SEERon	3.33
SEER	3.22
Qc [ kWh ]	10920.00
η [ % ]	128.82

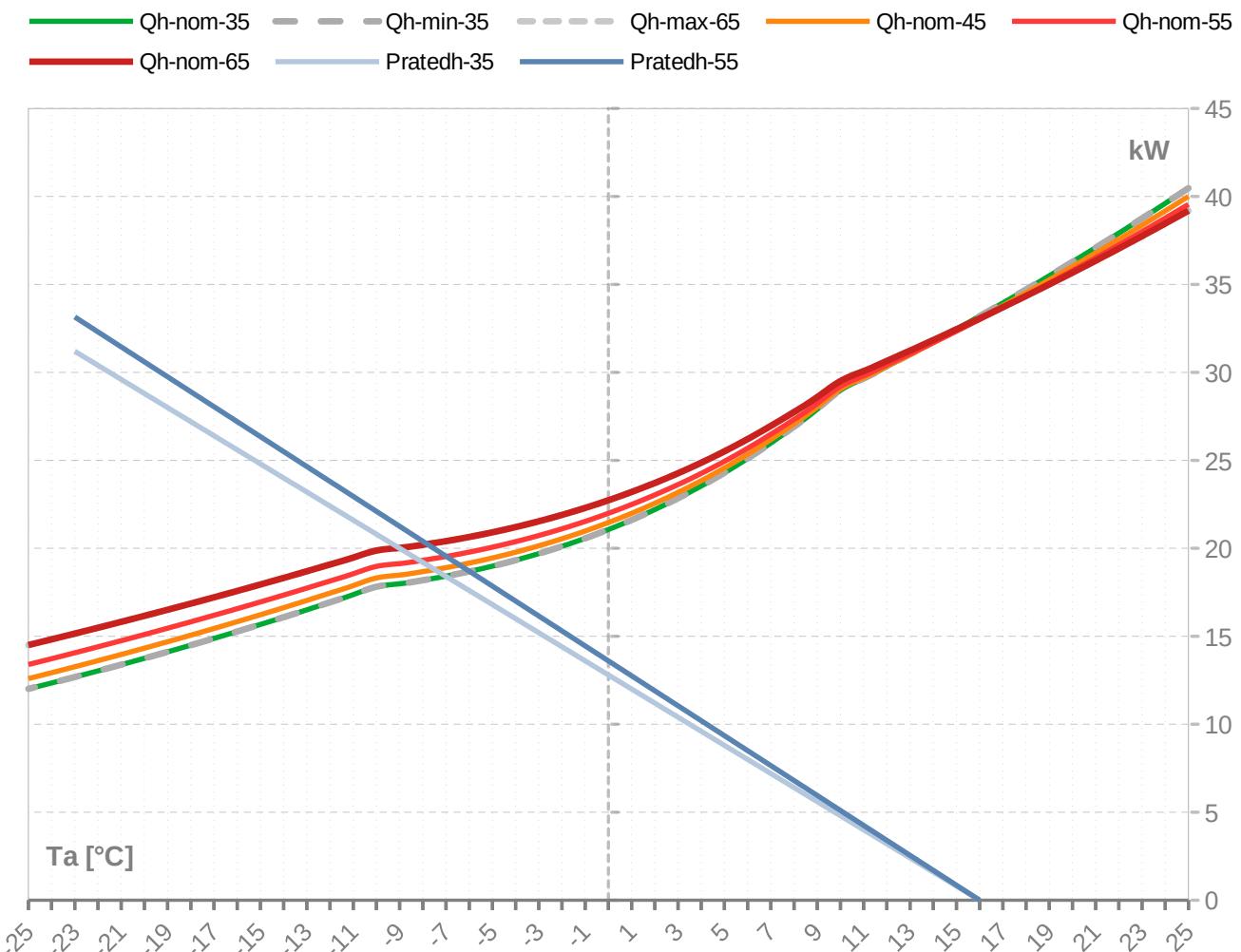
**Radiant cooling W 23 / 18°C**

Operating conditions		Qc	P	EER
A	A35 / W23-18	24.5	6.9	3.55
B	A30 / W23-18	25.2	5.9	4.05
C	A25 / W23-18	25.7	5.4	4.59
D	A20 / W23-18	26.2	4.8	5.17

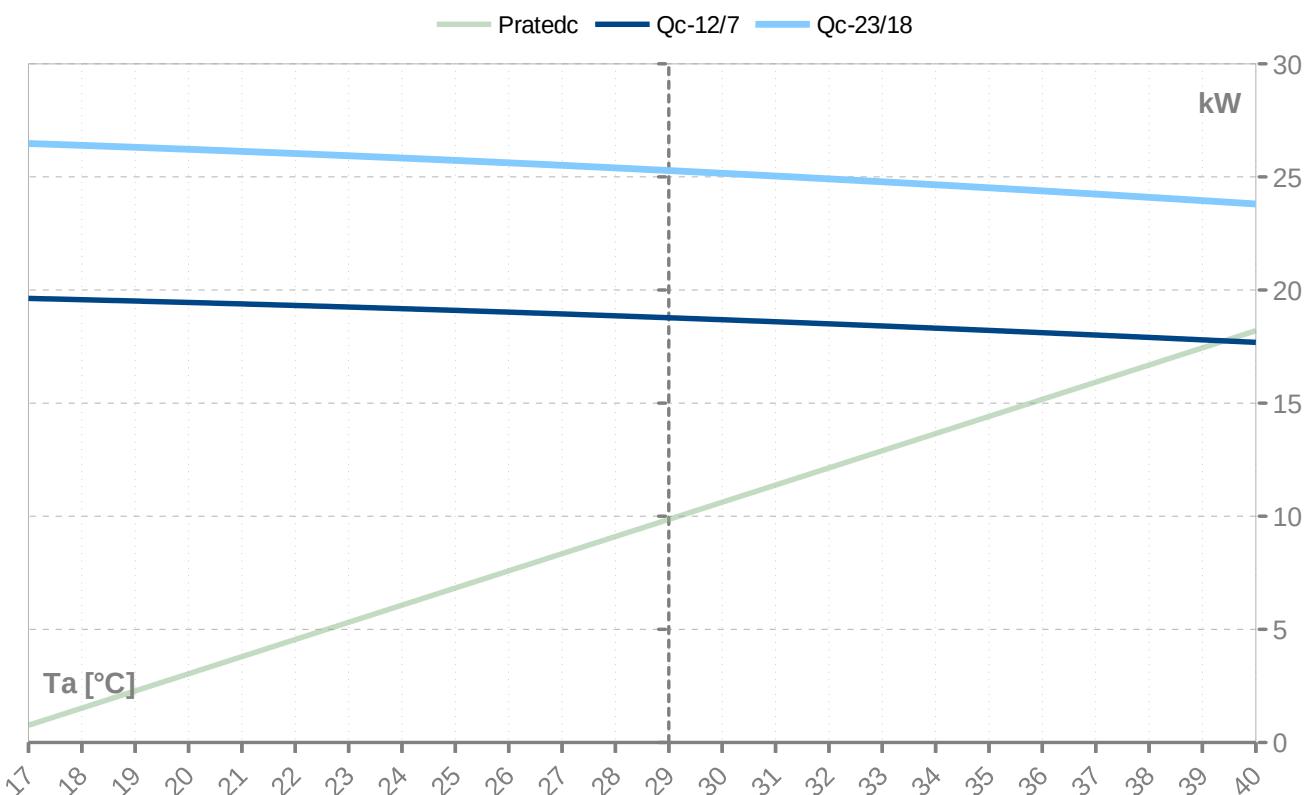
**SEER DATA EN 14825:2018 [ W 23 / 18°C ]**

SEERon	4.48
SEER	4.29
Qc [ kWh ]	10920.00
η [ % ]	171.62

## 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>33.9</b>	33.9		<b>6.1</b>	6.1		<b>5.59</b>	12.0	12.0	
24	<b>33.9</b>	33.9		<b>6.1</b>	6.1		<b>5.59</b>	12.0	12.0	
23	<b>33.9</b>	33.9		<b>6.1</b>	6.1		<b>5.59</b>	12.0	12.0	
22	<b>33.9</b>	33.9		<b>6.1</b>	6.1		<b>5.59</b>	12.0	12.0	
21	<b>33.9</b>	33.9		<b>6.1</b>	6.1		<b>5.59</b>	12.0	12.0	
20	<b>33.9</b>	33.9		<b>6.1</b>	6.1		<b>5.59</b>	12.0	12.0	
19	<b>33.9</b>	33.9		<b>6.1</b>	6.1		<b>5.59</b>	12.0	12.0	
18	<b>33.9</b>	33.9		<b>6.1</b>	6.1		<b>5.59</b>	12.0	12.0	
17	<b>33.9</b>	33.9		<b>6.1</b>	6.1		<b>5.59</b>	12.0	12.0	
16	<b>33.2</b>	33.2	33.2	<b>6.1</b>	6.1	6.1	<b>5.48</b>	12.0	12.0	12.0
15	<b>32.5</b>	32.5	32.5	<b>6.0</b>	6.0	6.0	<b>5.37</b>	12.0	12.0	12.0
14	<b>31.7</b>	31.7	31.7	<b>6.0</b>	6.0	6.0	<b>5.26</b>	12.0	12.0	12.0
13	<b>31.0</b>	31.0	31.0	<b>6.0</b>	6.0	6.0	<b>5.16</b>	12.0	12.0	12.0
12	<b>30.3</b>	30.3	30.3	<b>6.0</b>	6.0	6.0	<b>5.05</b>	12.0	12.0	12.0
11	<b>29.7</b>	29.7	29.7	<b>6.0</b>	6.0	6.0	<b>4.95</b>	11.9	11.9	11.9
10	<b>29.0</b>	29.0	29.0	<b>6.0</b>	6.0	6.0	<b>4.85</b>	11.9	11.9	11.9
9	<b>27.9</b>	27.9	27.9	<b>5.9</b>	5.9	5.9	<b>4.69</b>	11.9	11.9	11.9
8	<b>26.9</b>	26.9	26.9	<b>5.9</b>	5.9	5.9	<b>4.54</b>	11.9	11.9	11.9
7	<b>26.0</b>	26.0	26.0	<b>5.9</b>	5.9	5.9	<b>4.40</b>	11.9	11.9	11.9
6	<b>25.1</b>	25.1	25.1	<b>5.9</b>	5.9	5.9	<b>4.27</b>	11.8	11.8	11.8
5	<b>24.3</b>	24.3	24.3	<b>5.9</b>	5.9	5.9	<b>4.15</b>	11.8	11.8	11.8
4	<b>23.5</b>	23.5	23.5	<b>5.8</b>	5.8	5.8	<b>4.04</b>	11.8	11.8	11.8
3	<b>22.8</b>	22.8	22.8	<b>5.8</b>	5.8	5.8	<b>3.94</b>	11.8	11.8	11.8
2	<b>22.2</b>	22.2	22.2	<b>5.8</b>	5.8	5.8	<b>3.84</b>	11.8	11.8	11.8
1	<b>21.6</b>	21.6	21.6	<b>5.8</b>	5.8	5.8	<b>3.75</b>	11.8	11.8	11.8
0	<b>21.1</b>	21.1	21.1	<b>5.7</b>	5.7	5.7	<b>3.67</b>	11.7	11.7	11.7
-1	<b>20.6</b>	20.6	20.6	<b>5.7</b>	5.7	5.7	<b>3.60</b>	11.7	11.7	11.7
-2	<b>20.1</b>	20.1	20.1	<b>5.7</b>	5.7	5.7	<b>3.53</b>	11.7	11.7	11.7
-3	<b>19.7</b>	19.7	19.7	<b>5.7</b>	5.7	5.7	<b>3.47</b>	11.7	11.7	11.7
-4	<b>19.3</b>	19.3	19.3	<b>5.7</b>	5.7	5.7	<b>3.41</b>	11.7	11.7	11.7
-5	<b>19.0</b>	19.0	19.0	<b>5.6</b>	5.6	5.6	<b>3.36</b>	11.7	11.7	11.7
-6	<b>18.7</b>	18.7	18.7	<b>5.6</b>	5.6	5.6	<b>3.32</b>	11.7	11.7	11.7
-7	<b>18.4</b>	18.4	18.4	<b>5.6</b>	5.6	5.6	<b>3.28</b>	11.6	11.6	11.6
-8	<b>18.2</b>	18.2	18.2	<b>5.6</b>	5.6	5.6	<b>3.24</b>	11.6	11.6	11.6
-9	<b>18.0</b>	18.0	18.0	<b>5.6</b>	5.6	5.6	<b>3.22</b>	11.6	11.6	11.6
-10	<b>17.8</b>	17.8	17.8	<b>5.6</b>	5.6	5.6	<b>3.19</b>	11.6	11.6	11.6
-11	<b>17.4</b>	17.4	17.4	<b>5.6</b>	5.6	5.6	<b>3.12</b>	11.6	11.6	11.6
-12	<b>16.9</b>	16.9	16.9	<b>5.5</b>	5.5	5.5	<b>3.06</b>	11.6	11.6	11.6
-13	<b>16.5</b>	16.5	16.5	<b>5.5</b>	5.5	5.5	<b>3.00</b>	11.6	11.6	11.6
-14	<b>16.1</b>	16.1	16.1	<b>5.5</b>	5.5	5.5	<b>2.94</b>	11.5	11.5	11.5
-15	<b>15.7</b>	15.7	15.7	<b>5.5</b>	5.5	5.5	<b>2.88</b>	11.5	11.5	11.5
-16	<b>15.3</b>	15.3	15.3	<b>5.4</b>	5.4	5.4	<b>2.82</b>	11.5	11.5	11.5
-17	<b>14.9</b>	14.9	14.9	<b>5.4</b>	5.4	5.4	<b>2.76</b>	11.5	11.5	11.5
-18	<b>14.5</b>	14.5	14.5	<b>5.4</b>	5.4	5.4	<b>2.70</b>	11.4	11.4	11.4
-19	<b>14.1</b>	14.1	14.1	<b>5.3</b>	5.3	5.3	<b>2.65</b>	11.4	11.4	11.4
-20	<b>13.7</b>	13.7	13.7	<b>5.3</b>	5.3	5.3	<b>2.59</b>	11.4	11.4	11.4
-21	<b>13.4</b>	13.4	13.4	<b>5.3</b>	5.3	5.3	<b>2.54</b>	11.4	11.4	11.4
-22	<b>13.0</b>	13.0	13.0	<b>5.2</b>	5.2	5.2	<b>2.49</b>	11.3	11.3	11.3
-23	<b>12.7</b>	12.7	12.7	<b>5.2</b>	5.2	5.2	<b>2.44</b>	11.3	11.3	11.3
-24	<b>12.3</b>	12.3	12.3	<b>5.2</b>	5.2	5.2	<b>2.39</b>	11.3	11.3	11.3
-25	<b>12.0</b>	12.0	12.0	<b>5.1</b>	5.1	5.1	<b>2.34</b>	11.3	11.3	11.3

\* attention: operating limits not reflected in performance table

ZHI23K1P-TFM\_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>40.0</b>	40.0	40.0	<b>7.6</b>	7.6	7.6	<b>5.25</b>	13.5	13.5	13.5	
24	<b>39.2</b>	39.2	39.2	<b>7.6</b>	7.6	7.6	<b>5.15</b>	13.5	13.5	13.5	
23	<b>38.4</b>	38.4	38.4	<b>7.6</b>	7.6	7.6	<b>5.06</b>	13.5	13.5	13.5	
22	<b>37.6</b>	37.6	37.6	<b>7.6</b>	7.6	7.6	<b>4.96</b>	13.5	13.5	13.5	
21	<b>36.8</b>	36.8	36.8	<b>7.6</b>	7.6	7.6	<b>4.87</b>	13.4	13.4	13.4	
20	<b>36.0</b>	36.0	36.0	<b>7.5</b>	7.5	7.5	<b>4.77</b>	13.4	13.4	13.4	
19	<b>35.3</b>	35.3	35.3	<b>7.5</b>	7.5	7.5	<b>4.68</b>	13.4	13.4	13.4	
18	<b>34.5</b>	34.5	34.5	<b>7.5</b>	7.5	7.5	<b>4.59</b>	13.4	13.4	13.4	
17	<b>33.8</b>	33.8	33.8	<b>7.5</b>	7.5	7.5	<b>4.51</b>	13.4	13.4	13.4	
16	<b>33.1</b>	33.1	33.1	<b>7.5</b>	7.5	7.5	<b>4.42</b>	13.4	13.4	13.4	
15	<b>32.4</b>	32.4	32.4	<b>7.5</b>	7.5	7.5	<b>4.34</b>	13.4	13.4	13.4	
14	<b>31.7</b>	31.7	31.7	<b>7.4</b>	7.4	7.4	<b>4.25</b>	13.3	13.3	13.3	
13	<b>31.0</b>	31.0	31.0	<b>7.4</b>	7.4	7.4	<b>4.17</b>	13.3	13.3	13.3	
12	<b>30.3</b>	30.3	30.3	<b>7.4</b>	7.4	7.4	<b>4.09</b>	13.3	13.3	13.3	
11	<b>29.7</b>	29.7	29.7	<b>7.4</b>	7.4	7.4	<b>4.02</b>	13.3	13.3	13.3	
10	<b>29.1</b>	29.1	29.1	<b>7.4</b>	7.4	7.4	<b>3.94</b>	13.3	13.3	13.3	
9	<b>28.0</b>	28.0	28.0	<b>7.3</b>	7.3	7.3	<b>3.82</b>	13.2	13.2	13.2	
8	<b>27.1</b>	27.1	27.1	<b>7.3</b>	7.3	7.3	<b>3.70</b>	13.2	13.2	13.2	
7	<b>26.2</b>	26.2	26.2	<b>7.3</b>	7.3	7.3	<b>3.60</b>	13.2	13.2	13.2	
6	<b>25.3</b>	25.3	25.3	<b>7.2</b>	7.2	7.2	<b>3.50</b>	13.1	13.1	13.1	
5	<b>24.6</b>	24.6	24.6	<b>7.2</b>	7.2	7.2	<b>3.41</b>	13.1	13.1	13.1	
4	<b>23.8</b>	23.8	23.8	<b>7.2</b>	7.2	7.2	<b>3.32</b>	13.1	13.1	13.1	
3	<b>23.2</b>	23.2	23.2	<b>7.1</b>	7.1	7.1	<b>3.24</b>	13.0	13.0	13.0	
2	<b>22.6</b>	22.6	22.6	<b>7.1</b>	7.1	7.1	<b>3.17</b>	13.0	13.0	13.0	
1	<b>22.0</b>	22.0	22.0	<b>7.1</b>	7.1	7.1	<b>3.10</b>	13.0	13.0	13.0	
0	<b>21.5</b>	21.5	21.5	<b>7.1</b>	7.1	7.1	<b>3.04</b>	13.0	13.0	13.0	
-1	<b>21.0</b>	21.0	21.0	<b>7.0</b>	7.0	7.0	<b>2.98</b>	12.9	12.9	12.9	
-2	<b>20.5</b>	20.5	20.5	<b>7.0</b>	7.0	7.0	<b>2.93</b>	12.9	12.9	12.9	
-3	<b>20.1</b>	20.1	20.1	<b>7.0</b>	7.0	7.0	<b>2.88</b>	12.9	12.9	12.9	
-4	<b>19.8</b>	19.8	19.8	<b>7.0</b>	7.0	7.0	<b>2.84</b>	12.9	12.9	12.9	
-5	<b>19.5</b>	19.5	19.5	<b>6.9</b>	6.9	6.9	<b>2.80</b>	12.8	12.8	12.8	
-6	<b>19.2</b>	19.2	19.2	<b>6.9</b>	6.9	6.9	<b>2.77</b>	12.8	12.8	12.8	
-7	<b>18.9</b>	18.9	18.9	<b>6.9</b>	6.9	6.9	<b>2.74</b>	12.8	12.8	12.8	
-8	<b>18.7</b>	18.7	18.7	<b>6.9</b>	6.9	6.9	<b>2.71</b>	12.8	12.8	12.8	
-9	<b>18.5</b>	18.5	18.5	<b>6.9</b>	6.9	6.9	<b>2.69</b>	12.8	12.8	12.8	
-10	<b>18.3</b>	18.3	18.3	<b>6.9</b>	6.9	6.9	<b>2.67</b>	12.8	12.8	12.8	
-11	<b>17.9</b>	17.9	17.9	<b>6.8</b>	6.8	6.8	<b>2.62</b>	12.7	12.7	12.7	
-12	<b>17.5</b>	17.5	17.5	<b>6.8</b>	6.8	6.8	<b>2.57</b>	12.7	12.7	12.7	
-13	<b>17.0</b>	17.0	17.0	<b>6.8</b>	6.8	6.8	<b>2.52</b>	12.7	12.7	12.7	
-14	<b>16.6</b>	16.6	16.6	<b>6.7</b>	6.7	6.7	<b>2.47</b>	12.6	12.6	12.6	
-15	<b>16.2</b>	16.2	16.2	<b>6.7</b>	6.7	6.7	<b>2.43</b>	12.6	12.6	12.6	
-16	<b>15.8</b>	15.8	15.8	<b>6.6</b>	6.6	6.6	<b>2.38</b>	12.6	12.6	12.6	
-17	<b>15.4</b>	15.4	15.4	<b>6.6</b>	6.6	6.6	<b>2.34</b>	12.5	12.5	12.5	
-18	<b>15.1</b>	15.1	15.1	<b>6.6</b>	6.6	6.6	<b>2.29</b>	12.5	12.5	12.5	
-19	<b>14.7</b>	14.7	14.7	<b>6.5</b>	6.5	6.5	<b>2.25</b>	12.5	12.5	12.5	
-20	<b>14.3</b>	14.3	14.3	<b>6.5</b>	6.5	6.5	<b>2.21</b>	12.4	12.4	12.4	
-21	<b>14.0</b>	14.0	14.0	<b>6.4</b>	6.4	6.4	<b>2.17</b>	12.4	12.4	12.4	
-22	<b>13.6</b>	13.6	13.6	<b>6.4</b>	6.4	6.4	<b>2.13</b>	12.3	12.3	12.3	
-23	<b>13.3</b>	13.3	13.3	<b>6.4</b>	6.4	6.4	<b>2.09</b>	12.3	12.3	12.3	
-24	<b>12.9</b>	12.9	12.9	<b>6.3</b>	6.3	6.3	<b>2.05</b>	12.3	12.3	12.3	
-25	<b>12.6</b>	12.6	12.6	<b>6.3</b>	6.3	6.3	<b>2.01</b>	12.2	12.2	12.2	

\* attention: operating limits not reflected in performance table

Th [°C]	55 °C									
Ta [°C]	Qh nom [kW]	Qh min [kW]	Qh max [kW]	Pin nom [kW]	Pin-min [kW]	Pin-max [kW]	COP kW / kW	I nom [A]	I min [A]	I max [A]
25	<b>39.5</b>	39.5	39.5	<b>9.5</b>	9.5	9.5	<b>4.17</b>	15.6	15.6	15.6
24	<b>38.8</b>	38.8	38.8	<b>9.5</b>	9.5	9.5	<b>4.10</b>	15.6	15.6	15.6
23	<b>38.0</b>	38.0	38.0	<b>9.4</b>	9.4	9.4	<b>4.02</b>	15.5	15.5	15.5
22	<b>37.2</b>	37.2	37.2	<b>9.4</b>	9.4	9.4	<b>3.95</b>	15.5	15.5	15.5
21	<b>36.5</b>	36.5	36.5	<b>9.4</b>	9.4	9.4	<b>3.88</b>	15.5	15.5	15.5
20	<b>35.8</b>	35.8	35.8	<b>9.4</b>	9.4	9.4	<b>3.81</b>	15.5	15.5	15.5
19	<b>35.1</b>	35.1	35.1	<b>9.4</b>	9.4	9.4	<b>3.74</b>	15.4	15.4	15.4
18	<b>34.4</b>	34.4	34.4	<b>9.3</b>	9.3	9.3	<b>3.68</b>	15.4	15.4	15.4
17	<b>33.7</b>	33.7	33.7	<b>9.3</b>	9.3	9.3	<b>3.61</b>	15.4	15.4	15.4
16	<b>33.0</b>	33.0	33.0	<b>9.3</b>	9.3	9.3	<b>3.55</b>	15.4	15.4	15.4
15	<b>32.3</b>	32.3	32.3	<b>9.3</b>	9.3	9.3	<b>3.49</b>	15.3	15.3	15.3
14	<b>31.7</b>	31.7	31.7	<b>9.3</b>	9.3	9.3	<b>3.42</b>	15.3	15.3	15.3
13	<b>31.1</b>	31.1	31.1	<b>9.2</b>	9.2	9.2	<b>3.36</b>	15.3	15.3	15.3
12	<b>30.4</b>	30.4	30.4	<b>9.2</b>	9.2	9.2	<b>3.30</b>	15.3	15.3	15.3
11	<b>29.8</b>	29.8	29.8	<b>9.2</b>	9.2	9.2	<b>3.25</b>	15.2	15.2	15.2
10	<b>29.2</b>	29.2	29.2	<b>9.2</b>	9.2	9.2	<b>3.19</b>	15.2	15.2	15.2
9	<b>28.2</b>	28.2	28.2	<b>9.1</b>	9.1	9.1	<b>3.10</b>	15.2	15.2	15.2
8	<b>27.3</b>	27.3	27.3	<b>9.1</b>	9.1	9.1	<b>3.01</b>	15.1	15.1	15.1
7	<b>26.5</b>	26.5	26.5	<b>9.0</b>	9.0	9.0	<b>2.93</b>	15.1	15.1	15.1
6	<b>25.7</b>	25.7	25.7	<b>9.0</b>	9.0	9.0	<b>2.86</b>	15.0	15.0	15.0
5	<b>24.9</b>	24.9	24.9	<b>8.9</b>	8.9	8.9	<b>2.79</b>	15.0	15.0	15.0
4	<b>24.3</b>	24.3	24.3	<b>8.9</b>	8.9	8.9	<b>2.73</b>	14.9	14.9	14.9
3	<b>23.6</b>	23.6	23.6	<b>8.9</b>	8.9	8.9	<b>2.67</b>	14.9	14.9	14.9
2	<b>23.0</b>	23.0	23.0	<b>8.8</b>	8.8	8.8	<b>2.61</b>	14.8	14.8	14.8
1	<b>22.5</b>	22.5	22.5	<b>8.8</b>	8.8	8.8	<b>2.56</b>	14.8	14.8	14.8
0	<b>22.0</b>	22.0	22.0	<b>8.7</b>	8.7	8.7	<b>2.52</b>	14.7	14.7	14.7
-1	<b>21.5</b>	21.5	21.5	<b>8.7</b>	8.7	8.7	<b>2.47</b>	14.7	14.7	14.7
-2	<b>21.1</b>	21.1	21.1	<b>8.7</b>	8.7	8.7	<b>2.43</b>	14.7	14.7	14.7
-3	<b>20.7</b>	20.7	20.7	<b>8.6</b>	8.6	8.6	<b>2.40</b>	14.6	14.6	14.6
-4	<b>20.4</b>	20.4	20.4	<b>8.6</b>	8.6	8.6	<b>2.37</b>	14.6	14.6	14.6
-5	<b>20.1</b>	20.1	20.1	<b>8.6</b>	8.6	8.6	<b>2.34</b>	14.6	14.6	14.6
-6	<b>19.8</b>	19.8	19.8	<b>8.6</b>	8.6	8.6	<b>2.31</b>	14.5	14.5	14.5
-7	<b>19.5</b>	19.5	19.5	<b>8.5</b>	8.5	8.5	<b>2.29</b>	14.5	14.5	14.5
-8	<b>19.3</b>	19.3	19.3	<b>8.5</b>	8.5	8.5	<b>2.27</b>	14.5	14.5	14.5
-9	<b>19.1</b>	19.1	19.1	<b>8.5</b>	8.5	8.5	<b>2.25</b>	14.5	14.5	14.5
-10	<b>19.0</b>	19.0	19.0	<b>8.5</b>	8.5	8.5	<b>2.24</b>	14.5	14.5	14.5
-11	<b>18.6</b>	18.6	18.6	<b>8.4</b>	8.4	8.4	<b>2.20</b>	14.4	14.4	14.4
-12	<b>18.1</b>	18.1	18.1	<b>8.4</b>	8.4	8.4	<b>2.16</b>	14.4	14.4	14.4
-13	<b>17.7</b>	17.7	17.7	<b>8.3</b>	8.3	8.3	<b>2.13</b>	14.3	14.3	14.3
-14	<b>17.3</b>	17.3	17.3	<b>8.3</b>	8.3	8.3	<b>2.09</b>	14.3	14.3	14.3
-15	<b>16.9</b>	16.9	16.9	<b>8.2</b>	8.2	8.2	<b>2.05</b>	14.2	14.2	14.2
-16	<b>16.6</b>	16.6	16.6	<b>8.2</b>	8.2	8.2	<b>2.02</b>	14.2	14.2	14.2
-17	<b>16.2</b>	16.2	16.2	<b>8.2</b>	8.2	8.2	<b>1.99</b>	14.1	14.1	14.1
-18	<b>15.8</b>	15.8	15.8	<b>8.1</b>	8.1	8.1	<b>1.95</b>	14.1	14.1	14.1
-19	<b>15.5</b>	15.5	15.5	<b>8.0</b>	8.0	8.0	<b>1.92</b>	14.0	14.0	14.0
-20	<b>15.1</b>	15.1	15.1	<b>8.0</b>	8.0	8.0	<b>1.89</b>	14.0	14.0	14.0
-21	<b>14.7</b>	14.7	14.7	<b>7.9</b>	7.9	7.9	<b>1.86</b>	13.9	13.9	13.9
-22	<b>14.4</b>	14.4	14.4	<b>7.9</b>	7.9	7.9	<b>1.83</b>	13.8	13.8	13.8
-23	<b>14.1</b>	14.1	14.1	<b>7.8</b>	7.8	7.8	<b>1.80</b>	13.8	13.8	13.8
-24	<b>13.7</b>	13.7	13.7	<b>7.8</b>	7.8	7.8	<b>1.77</b>	13.7	13.7	13.7
-25	<b>13.4</b>	13.4	13.4	<b>7.7</b>	7.7	7.7	<b>1.74</b>	13.7	13.7	13.7

\* 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>39.2</b>	39.2	39.2	<b>11.8</b>	11.8	11.8	<b>3.31</b>	18.4	18.4	18.4	
24	<b>38.5</b>	38.5	38.5	<b>11.8</b>	11.8	11.8	<b>3.26</b>	18.4	18.4	18.4	
23	<b>37.7</b>	37.7	37.7	<b>11.8</b>	11.8	11.8	<b>3.20</b>	18.4	18.4	18.4	
22	<b>37.0</b>	37.0	37.0	<b>11.8</b>	11.8	11.8	<b>3.15</b>	18.3	18.3	18.3	
21	<b>36.3</b>	36.3	36.3	<b>11.7</b>	11.7	11.7	<b>3.10</b>	18.3	18.3	18.3	
20	<b>35.7</b>	35.7	35.7	<b>11.7</b>	11.7	11.7	<b>3.05</b>	18.3	18.3	18.3	
19	<b>35.0</b>	35.0	35.0	<b>11.7</b>	11.7	11.7	<b>3.00</b>	18.2	18.2	18.2	
18	<b>34.3</b>	34.3	34.3	<b>11.6</b>	11.6	11.6	<b>2.95</b>	18.2	18.2	18.2	
17	<b>33.7</b>	33.7	33.7	<b>11.6</b>	11.6	11.6	<b>2.90</b>	18.2	18.2	18.2	
16	<b>33.1</b>	33.1	33.1	<b>11.6</b>	11.6	11.6	<b>2.85</b>	18.1	18.1	18.1	
15	<b>32.4</b>	32.4	32.4	<b>11.6</b>	11.6	11.6	<b>2.81</b>	18.1	18.1	18.1	
14	<b>31.8</b>	31.8	31.8	<b>11.5</b>	11.5	11.5	<b>2.76</b>	18.0	18.0	18.0	
13	<b>31.2</b>	31.2	31.2	<b>11.5</b>	11.5	11.5	<b>2.72</b>	18.0	18.0	18.0	
12	<b>30.7</b>	30.7	30.7	<b>11.5</b>	11.5	11.5	<b>2.67</b>	18.0	18.0	18.0	
11	<b>30.1</b>	30.1	30.1	<b>11.4</b>	11.4	11.4	<b>2.63</b>	17.9	17.9	17.9	
10	<b>29.5</b>	29.5	29.5	<b>11.4</b>	11.4	11.4	<b>2.59</b>	17.9	17.9	17.9	
9	<b>28.6</b>	28.6	28.6	<b>11.3</b>	11.3	11.3	<b>2.52</b>	17.8	17.8	17.8	
8	<b>27.7</b>	27.7	27.7	<b>11.3</b>	11.3	11.3	<b>2.46</b>	17.7	17.7	17.7	
7	<b>27.0</b>	27.0	27.0	<b>11.2</b>	11.2	11.2	<b>2.40</b>	17.7	17.7	17.7	
6	<b>26.2</b>	26.2	26.2	<b>11.2</b>	11.2	11.2	<b>2.35</b>	17.6	17.6	17.6	
5	<b>25.5</b>	25.5	25.5	<b>11.1</b>	11.1	11.1	<b>2.30</b>	17.5	17.5	17.5	
4	<b>24.9</b>	24.9	24.9	<b>11.1</b>	11.1	11.1	<b>2.25</b>	17.5	17.5	17.5	
3	<b>24.3</b>	24.3	24.3	<b>11.0</b>	11.0	11.0	<b>2.21</b>	17.4	17.4	17.4	
2	<b>23.7</b>	23.7	23.7	<b>11.0</b>	11.0	11.0	<b>2.17</b>	17.3	17.3	17.3	
1	<b>23.2</b>	23.2	23.2	<b>10.9</b>	10.9	10.9	<b>2.13</b>	17.3	17.3	17.3	
0	<b>22.7</b>	22.7	22.7	<b>10.9</b>	10.9	10.9	<b>2.09</b>	17.2	17.2	17.2	
-1	<b>22.3</b>	22.3	22.3	<b>10.8</b>	10.8	10.8	<b>2.06</b>	17.2	17.2	17.2	
-2	<b>21.9</b>	21.9	21.9	<b>10.8</b>	10.8	10.8	<b>2.04</b>	17.1	17.1	17.1	
-3	<b>21.5</b>	21.5	21.5	<b>10.7</b>	10.7	10.7	<b>2.01</b>	17.1	17.1	17.1	
-4	<b>21.2</b>	21.2	21.2	<b>10.7</b>	10.7	10.7	<b>1.99</b>	17.0	17.0	17.0	
-5	<b>20.9</b>	20.9	20.9	<b>10.6</b>	10.6	10.6	<b>1.96</b>	17.0	17.0	17.0	
-6	<b>20.6</b>	20.6	20.6	<b>10.6</b>	10.6	10.6	<b>1.95</b>	16.9	16.9	16.9	
-7	<b>20.4</b>	20.4	20.4	<b>10.6</b>	10.6	10.6	<b>1.93</b>	16.9	16.9	16.9	
-8	<b>20.2</b>	20.2	20.2	<b>10.6</b>	10.6	10.6	<b>1.91</b>	16.9	16.9	16.9	
-9	<b>20.0</b>	20.0	20.0	<b>10.5</b>	10.5	10.5	<b>1.90</b>	16.8	16.8	16.8	
-10	<b>19.9</b>	19.9	19.9	<b>10.5</b>	10.5	10.5	<b>1.89</b>	16.8	16.8	16.8	
-11	<b>19.5</b>	19.5	19.5	<b>10.5</b>	10.5	10.5	<b>1.86</b>	16.8	16.8	16.8	
-12	<b>19.1</b>	19.1	19.1	<b>10.4</b>	10.4	10.4	<b>1.84</b>	16.7	16.7	16.7	
-13	<b>18.7</b>	18.7	18.7	<b>10.3</b>	10.3	10.3	<b>1.81</b>	16.6	16.6	16.6	
-14	<b>18.3</b>	18.3	18.3	<b>10.3</b>	10.3	10.3	<b>1.78</b>	16.6	16.6	16.6	
-15	<b>17.9</b>	17.9	17.9	<b>10.2</b>	10.2	10.2	<b>1.76</b>	16.5	16.5	16.5	
-16											
-17											
-18											
-19											
-20											
-21											
-22											
-23											
-24											
-25											

\* attention: operating limits not reflected in performance table

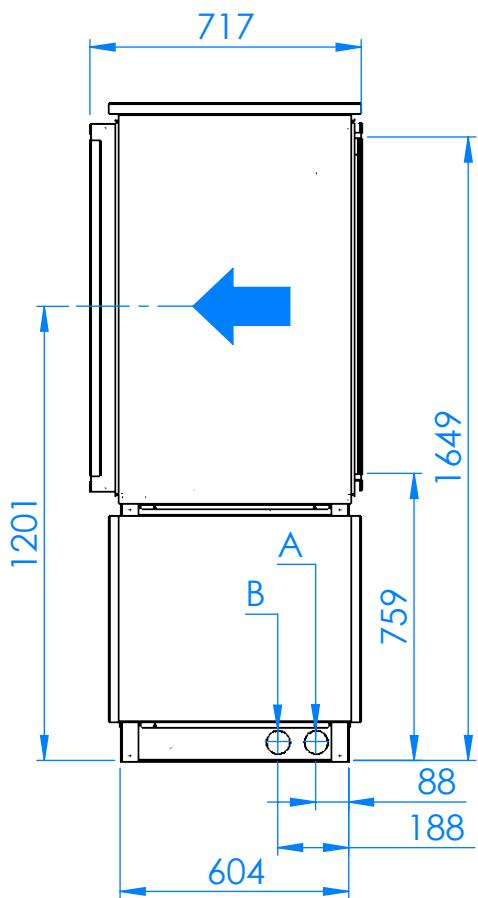
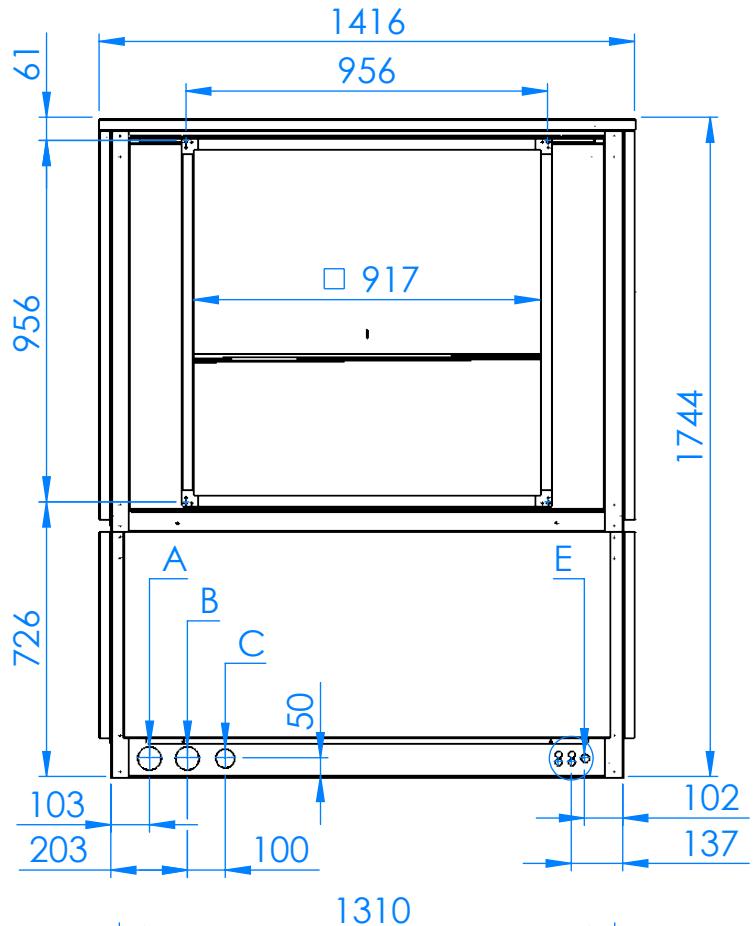
Tc [°C]			W 12 / 7 °C								
Ta [°C]	Qc nom [kW]	Qc min [kW]	Qc max [kW]	Pin [kW]	Pin min [kW]	Pin max [kW]	EER kW / kW	I nom [A]	I min [A]	I max [A]	
40	<b>17.7</b>	17.7	17.7	<b>7.7</b>	7.7	7.7	<b>2.30</b>	13.6	13.6	13.6	
39	<b>17.8</b>	17.8	17.8	<b>7.5</b>	7.5	7.5	<b>2.37</b>	13.4	13.4	13.4	
38	<b>17.9</b>	17.9	17.9	<b>7.4</b>	7.4	7.4	<b>2.43</b>	13.3	13.3	13.3	
37	<b>18.0</b>	18.0	18.0	<b>7.2</b>	7.2	7.2	<b>2.50</b>	13.1	13.1	13.1	
36	<b>18.1</b>	18.1	18.1	<b>7.1</b>	7.1	7.1	<b>2.57</b>	12.9	12.9	12.9	
35	<b>18.2</b>	18.2	18.2	<b>6.9</b>	6.9	6.9	<b>2.64</b>	12.8	12.8	12.8	
34	<b>18.3</b>	18.3	18.3	<b>6.8</b>	6.8	6.8	<b>2.71</b>	12.7	12.7	12.7	
33	<b>18.4</b>	18.4	18.4	<b>6.6</b>	6.6	6.6	<b>2.78</b>	12.5	12.5	12.5	
32	<b>18.5</b>	18.5	18.5	<b>6.5</b>	6.5	6.5	<b>2.85</b>	12.4	12.4	12.4	
31	<b>18.6</b>	18.6	18.6	<b>6.4</b>	6.4	6.4	<b>2.93</b>	12.3	12.3	12.3	
30	<b>18.7</b>	18.7	18.7	<b>6.2</b>	6.2	6.2	<b>3.00</b>	12.2	12.2	12.2	
29	<b>18.8</b>	18.8	18.8	<b>6.1</b>	6.1	6.1	<b>3.08</b>	12.0	12.0	12.0	
28	<b>18.9</b>	18.9	18.9	<b>6.0</b>	6.0	6.0	<b>3.16</b>	11.9	11.9	11.9	
27	<b>18.9</b>	18.9	18.9	<b>5.8</b>	5.8	5.8	<b>3.24</b>	11.8	11.8	11.8	
26	<b>19.0</b>	19.0	19.0	<b>5.7</b>	5.7	5.7	<b>3.32</b>	11.7	11.7	11.7	
25	<b>19.1</b>	19.1	19.1	<b>5.6</b>	5.6	5.6	<b>3.40</b>	11.6	11.6	11.6	
24	<b>19.2</b>	19.2	19.2	<b>5.5</b>	5.5	5.5	<b>3.49</b>	11.5	11.5	11.5	
23	<b>19.2</b>	19.2	19.2	<b>5.4</b>	5.4	5.4	<b>3.57</b>	11.4	11.4	11.4	
22	<b>19.3</b>	19.3	19.3	<b>5.3</b>	5.3	5.3	<b>3.66</b>	11.4	11.4	11.4	
21	<b>19.4</b>	19.4	19.4	<b>5.2</b>	5.2	5.2	<b>3.74</b>	11.3	11.3	11.3	
20	<b>19.4</b>	19.4	19.4	<b>5.1</b>	5.1	5.1	<b>3.83</b>	11.2	11.2	11.2	
19	<b>19.5</b>	19.5	19.5	<b>5.0</b>	5.0	5.0	<b>3.92</b>	11.1	11.1	11.1	
18	<b>19.6</b>	19.6	19.6	<b>4.9</b>	4.9	4.9	<b>4.01</b>	11.1	11.1	11.1	
17	<b>19.6</b>	19.6	19.6	<b>4.8</b>	4.8	4.8	<b>4.10</b>	11.0	11.0	11.0	

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>23.8</b>	23.8	23.8	<b>7.7</b>	7.7	7.7	<b>3.10</b>	13.8	13.8	13.8	
39	<b>24.0</b>	24.0	24.0	<b>7.5</b>	7.5	7.5	<b>3.19</b>	13.7	13.7	13.7	
38	<b>24.1</b>	24.1	24.1	<b>7.4</b>	7.4	7.4	<b>3.27</b>	13.5	13.5	13.5	
37	<b>24.2</b>	24.2	24.2	<b>7.2</b>	7.2	7.2	<b>3.36</b>	13.3	13.3	13.3	
36	<b>24.4</b>	24.4	24.4	<b>7.1</b>	7.1	7.1	<b>3.46</b>	13.2	13.2	13.2	
35	<b>24.5</b>	24.5	24.5	<b>6.9</b>	6.9	6.9	<b>3.55</b>	13.0	13.0	13.0	
34	<b>24.7</b>	24.7	24.7	<b>6.8</b>	6.8	6.8	<b>3.65</b>	12.8	12.8	12.8	
33	<b>24.8</b>	24.8	24.8	<b>6.6</b>	6.6	6.6	<b>3.74</b>	12.7	12.7	12.7	
32	<b>24.9</b>	24.9	24.9	<b>6.5</b>	6.5	6.5	<b>3.84</b>	12.6	12.6	12.6	
31	<b>25.0</b>	25.0	25.0	<b>6.4</b>	6.4	6.4	<b>3.94</b>	12.4	12.4	12.4	
30	<b>25.2</b>	25.2	25.2	<b>6.2</b>	6.2	6.2	<b>4.05</b>	12.3	12.3	12.3	
29	<b>25.3</b>	25.3	25.3	<b>6.1</b>	6.1	6.1	<b>4.15</b>	12.2	12.2	12.2	
28	<b>25.4</b>	25.4	25.4	<b>6.0</b>	6.0	6.0	<b>4.26</b>	12.1	12.1	12.1	
27	<b>25.5</b>	25.5	25.5	<b>5.8</b>	5.8	5.8	<b>4.36</b>	12.0	12.0	12.0	
26	<b>25.6</b>	25.6	25.6	<b>5.7</b>	5.7	5.7	<b>4.47</b>	11.9	11.9	11.9	
25	<b>25.7</b>	25.7	25.7	<b>5.6</b>	5.6	5.6	<b>4.59</b>	11.8	11.8	11.8	
24	<b>25.8</b>	25.8	25.8	<b>5.5</b>	5.5	5.5	<b>4.70</b>	11.7	11.7	11.7	
23	<b>25.9</b>	25.9	25.9	<b>5.4</b>	5.4	5.4	<b>4.81</b>	11.6	11.6	11.6	
22	<b>26.0</b>	26.0	26.0	<b>5.3</b>	5.3	5.3	<b>4.93</b>	11.5	11.5	11.5	
21	<b>26.1</b>	26.1	26.1	<b>5.2</b>	5.2	5.2	<b>5.05</b>	11.4	11.4	11.4	
20	<b>26.2</b>	26.2	26.2	<b>5.1</b>	5.1	5.1	<b>5.17</b>	11.3	11.3	11.3	
19	<b>26.3</b>	26.3	26.3	<b>5.0</b>	5.0	5.0	<b>5.29</b>	11.2	11.2	11.2	
18	<b>26.4</b>	26.4	26.4	<b>4.9</b>	4.9	4.9	<b>5.41</b>	11.2	11.2	11.2	
17	<b>26.5</b>	26.5	26.5	<b>4.8</b>	4.8	4.8	<b>5.54</b>	11.1	11.1	11.1	

\* 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



A -

B -

C - condens

E - electro

