



## Heat pump



# *BW 19 EVI*

# WAMAK BW 19 EVI

## Product description

---

Compact heat pump for heating and domestic hot water with passive cooling control. Short closed refrigerant circuit with silent scroll compressor contributes to 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.

As a primary source, the thermal energy of the sun accumulated in the ground through a horizontal collector or geothermal energy through a deep borehole is used. In the collector or borehole, an antifreeze flows which takes the energy of the earth at a low temperature and the heat pump raises this temperature to a temperature usable for heating or hot water.

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.

## Product features

---

- Scroll compressor
- EVI technology
- Asymmetric plate heat exchanger
- Phase and rotation control
- High pressure sensor - analogue
- Flow switch consumer - on/off - (with accessory)
- Flow switch source - on/off - (with accessory)
- ECM speed circulator - evaporator
- Direct heating/cooling circuit control
- DHW circulation control
- DHW temperature sensor
- Cascade control - (with accessory)
- Solid frame structure
- Sylomer pads under compressor unit
- Electronic expansion valve
- Compressor soft starter
- High pressure switch
- Low pressure sensor - analogue
- Flow sensor consumer - analogue
- ECM speed circulator - condenser
- Mixed heating/cooling circuit control
- DHW switching control
- Outdoor temperature sensor
- Buffer temperature sensor
- Modbus connection - (with accessory)

## Basic performance data - WAMAK BW 19 EVI

Heating - EN 14511		
Heating capacity [kW]	B0 / W35 (max)	19.5
	B0 / W35 (min)	19.5
	B0 / W34	19.5
Electrical power input [kW]	B0 / W35 (max)	4.3
	B0 / W35 (min)	4.3
	B0 / W34	4.2
Heating efficiency faktor [COP]	B0 / W35 (max)	4.50
	B0 / W35 (min)	4.50
	B0 / W34	4.60
Seasonal space heating energy efficiency - SCOP EN 14825		
Average Climate / Low Temperature [35 °C]	SCOP	5.07
	$\eta$ [%]	202.6
	Label	A+++
	Qhe [ kWh ]	40287.0
	Pdesignh [ kW ]	19.5
	Tbivalent [ °C ]	-10
Cooling		
Cooling capacity - [kW]	A35 / W23-18	19.9
	A25 / W23-18	20.9
	A35 / W12-7	19.9
	A25 / W12-7	19.9
Seasonal space cooling energy efficiency - SEER EN 14825		
[ W 23 / 18 °C ]	SEER	5.28
	Qce [ kWh ]	8880.0
	$\eta_c$ [%]	211.3
Sound EN 12102		
Acoustic power - Lw	dB(A)	47
Acoustic pressure - Lp	1 m dB(A)	39
	5 m dB(A)	25
	10 m dB(A)	19
Mechanical and operational information		
Compressor type (3~ 400/50)	SCROLL / 1 /	On/Off
Refrigerant	R410A (GWP - 2088)	3 kg
Operating limit temperatures heating - (min / max ) [ °C ]		25 / 65
Operating limit temperatures source - (min / max ) [ °C ]		-10 (7) / 30
Weight		180 kg

## Main technical data - WAMAK BW 19 EVI

Enclosure type		VN800		Heat energy rejection side data			
Basic dimensions	Height [mm]	1270		Operating limit temperatures heating	MAX [°C]	65	
	Width [mm]	850			MIN [°C]	25	
	Length [mm]	630		for more see operating limits diagram			
Weight [kg]	180		Condenser	Port size	1.1/4 "		
Colour	Gray			Type	BPHE		
Enclosure IP Class	IP20			Count	1		
Refrigeration cycle				Material	AISI 316		
Compressor	Type	Scroll		Maximal operating pressure - refrigerant [bar]		45	
	Number of stages	1		Maximal operating pressure - Water [bar]		3	
	On/Off			Testing pressure [bar]		70	
	Power factor Cosφ	0.64		Heat transfer medium		Water	
	Winding resistance	1.79 Ohm		Volume flow - Water [m3/h]		3.36	
Refrigerant		R410A		Internal pressure drop - Water [kPa]		12	
	Volme	3 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	1.24 L		@ 65°C		10 K	
Maximal pressure - refrigerant [bar]		45		Renewable energy extraction side data			
	PED class	1		Operating limit temperatures source		MIN [°C] -10 (7)	
EVI - vapour injection with economizer					MAX [°C] 30		
Electrical connection data			for more see operating limits diagram				
Line voltage [#~ V/Hz]	3~ 400/50		Evaporator	Port size	1.1/2 "		
Current	nominal [A]	9.32		Type	BPHE		
	maximal [A]	16.00		Count	1		
	starting [A]	18.9		Material	AISI 316		
Softstart	MCI 15		Maximal operating pressure - refrigerant [bar]		28		
Main safety	C25		Heat transfer medium		Ethylenglykol		
Control System			Brine proportion [%]		29		
Main controller	SIEMENS	RVS 21	AVS 55.199	Antifreeze to [°C]		-15	
Extension module	AVS75.391	AVS75.391	AVS75.3xx	Maximal operating pressure - Ethylenglykol [bar]		3	
Bus Clip-In		LPB OCI346	Modbus OCI352	Volume flow - Ethylenglykol [m3/h]		4.60	
Online connection		Web server OZW672	ToSyMo	Internal pressure drop - Ethylenglykol [kPa]		12	
*** with accessory			Temperature difference - Ethylenglykol		3 K		
			ECM speed circulator - evaporator		UPMXL GEO 32-125		

## WAMAK BW 19 EVI

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

Model	BW 19 EVI
Air-to-water heat pump	no
Brine-to-water heat pump	yes
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	19.5	kW	Seasonal space heating energy efficiency	$\eta_s$	202.6	%
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	19.5	kW	Tj = -7 °C	COPd	4.60	-
Tj = +2 °C	Pdh	19.4	kW	Tj = +2 °C	COPd	5.0	-
Tj = +7 °C	Pdh	19.3	kW	Tj = +7 °C	COPd	5.4	-
Tj = +12 °C	Pdh	19.3	kW	Tj = +12 °C	COPd	5.7	-
Tj = bivalent temperature	Pdh	19.5	kW	Tj = bivalent temperature	COPd	4.5	-
Tj = operation limit temperature	Pdh	---	kW	Tj = operation limit temperature	COPd	---	-
Bivalent temperature	Tbiv	-10	°C	Tj = operation limit temperature	TOL	---	°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	3.8	kW
Standby mode	Psb	0.010	kW	Type of energy input	electricity		
Crankcase heater mode	Pck	0.000	kW	For air-to-water heat pumps: Rated air flow rate, outdoors			
Other items				For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			
Capacity control		fixed					
Sound power level							
indoors	Lwa	47	dB				
outdoors	Lwa	---	dB				
Annual energy consumption	Q <sub>HE</sub>	40287.0	kWh				

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

## WAMAK BW 19 EVI

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

Model	BW 19 EVI
Air-to-water heat pump	no
Brine-to-water heat pump	yes
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	20.3	kW	Seasonal space heating energy efficiency	$\eta_s$	160.7	%
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	3.27	-
Tj = +2 °C	Pdh	20.1	kW	Tj = +2 °C	COPd	4.2	-
Tj = +7 °C	Pdh	19.7	kW	Tj = +7 °C	COPd	4.7	-
Tj = +12 °C	Pdh	19.6	kW	Tj = +12 °C	COPd	5.1	-
Tj = bivalent temperature	Pdh	20.3	kW	Tj = bivalent temperature	COPd	2.9	-
Tj = operation limit temperature	Pdh	---	kW	Tj = operation limit temperature	COPd	---	-
Bivalent temperature	Tbiv	-10	°C	Tj = operation limit temperature	TOL	---	°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	3.8	kW
Standby mode	Psb	0.010	kW	Type of energy input	electricity		
Crankcase heater mode	Pck	0.000	kW	For air-to-water heat pumps:			
Other items				Rated air flow rate, outdoors	-	---	m <sup>3</sup> /h
Capacity control	fixed			For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			
Sound power level						4.60	m <sup>3</sup> /h
indoors	Lwa	47	dB				
outdoors	Lwa	---	dB				
Annual energy consumption	Q <sub>HE</sub>	41939.8	kWh				

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



**ENERG** Y IIA  
 енергия - ενεργεια IE IA

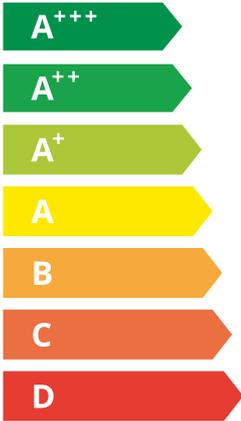
**WAMAK**

BW 19 EVI



55 °C

35 °C



**A+++**

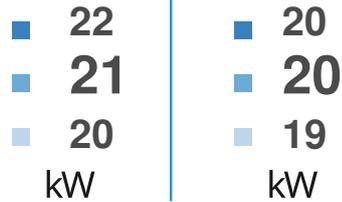
**A+++**



47 dB



--- dB



2019

811/2013

BW 19 EVI

**ErP Data**

	55 °C	35 °C
Energy class	<b>A+++</b>	<b>A+++</b>
$\eta$ [%]	160.7	202.6
$P_{rated}$ [kW]	21	20
$Q_{HE}$ [kWh/y]	41940	40287
SCOP [-]	4.02	5.07
$T_{bivalent}$ [°C]	-10	-10

CONTROLLER



+ QAA55/75 class VII 3.5% ↓  
 - QAA55/75 class III 1.5% ↓

Heating performance data

Version: v202223.006-BW-WW

Source - Brine [0°C] / Low Temperature [35°C]

ZHI18K1P-TFM\_R410A\_1\_BWW

	Operating conditions	Qh	P	COP
1	B0 / W30-35	19.5	4.3	4.50
2	B0 / W30-35 ( MIN )	19.5	4.3	4.50
A	B0 / Wxx-34	19.5	4.2	4.60
B	B0 / Wxx-30	19.4	3.9	5.02
C	B0 / Wxx-27	19.3	3.6	5.36
D	B0 / Wxx-24	19.3	3.4	5.70
E	B0 / Wxx-35	19.5	4.3	4.50
F	B0 / Wxx-35	19.5	4.3	4.50

SCOP DATA EN 14825:2018	
Source - Brine [0°C] / Low Temperature [35°C]	
SCOPon	5.09
SCOPnet	5.09
SCOP	5.07
η [ % ]	202.63
Label	A+++
Qh [ kWh ]	40287
Pdesignh [ kW ]	19.5
Tbivalent [ °C ]	-10

Source - Brine [0°C] / Medium Temperature [55°C]

	Operating conditions	Qh	P	COP
1	B0 / W47-55	20.3	7.1	2.86
2	B0 / W47-55 ( MIN )	20.3	6.9	2.86
A	B0 / Wxx-52	20.3	6.4	3.27
B	B0 / Wxx-42	20.1	4.9	4.17
C	B0 / Wxx-36	19.7	4.3	4.61
D	B0 / Wxx-30	19.6	3.9	5.09
E	B0 / Wxx-55	20.3	7.1	2.86
F	B0 / Wxx-54	20.3	6.6	3.09

SCOP DATA EN 14825:2018	
Source - Brine [0°C] / Medium Temperature [55°C]	
SCOPon	4.03
SCOPnet	4.03
SCOP	4.02
η [ % ]	160.68
Label	A+++
Qh [ kWh ]	41940
Pdesignh [ kW ]	20.3
Tbivalent [ °C ]	-10

Source - Water [10°C] / Low Temperature [35°C]

	Operating conditions	Qh	P	COP
1	W10 / W30-35	24.7	4.3	5.76
2	W10 / W30-35 ( MIN )	24.7	4.3	5.76
A	W10 / Wxx-34	24.7	4.2	5.89
B	W10 / Wxx-30	24.7	3.8	6.45
C	W10 / Wxx-27	24.8	3.6	6.87
D	W10 / Wxx-24	24.8	3.4	7.30
E	W10 / Wxx-35	24.7	4.3	5.76
F	W10 / Wxx-35	24.7	4.3	5.76

SCOP DATA EN 14825:2018	
Source - Water [10°C] / Low Temperature [35°C]	
SCOPon	6.53
SCOPnet	6.53
SCOP	6.50
η [ % ]	259.82
Label	A+++
Qh [ kWh ]	51030
Pdesignh [ kW ]	24.7
Tbivalent [ °C ]	-10.00

## WAMAK BW 19 EVI

### Source - Water [10°C] / Medium Temperature [55°C]

Operating conditions	Qh	P	COP
1 W10 / W47-55	25.1	7.1	3.53
2 W10 / W47-55 ( MIN )	25.1	7.1	3.53
A W10 / Wxx-52	25.2	6.4	3.94
B W10 / Wxx-42	25.0	4.8	5.17
C W10 / Wxx-36	25.0	4.2	5.89
D W10 / Wxx-30	25.0	3.8	6.52
E W10 / Wxx-55	25.1	7.1	3.53
F W10 / Wxx-55	25.1	7.1	3.53

SCOP DATA EN 14825:2018	
Source - Water [10°C] / Medium Temperature [55°C]	
SCOPon	4.97
SCOPnet	4.97
SCOP	4.95
η [ % ]	197.93
Label	A+++
Qh [ kWh ]	51857
Pdesignh [ kW ]	25.1
Tbivalent [ °C ]	-10.00

### Low temperature cooling W 12 / 7°C

Operating conditions	Qc	P	EER
A W30-35 / W12-7	15.2	4.6	3.27
B W26-xx / W12-7	15.5	4.2	3.67
C W22-xx / W12-7	15.8	3.9	4.09
D W18-xx / W12-7	15.9	3.7	4.31

SEER DATA EN 14825:2018 [ W 12 / 7°C ]	
SEERon	3.96
SEER	3.95
Qc [ kWh ]	8880
η [ % ]	157.86

### Radiant cooling W 23 / 18°C

Operating conditions	Qc	P	EER
A W50-xx / W23-18	18.1	7.6	2.37
B W40-xx / W23-18	19.3	5.9	3.25
C W30-35 / W23-18	20.4	4.6	4.39
D W26-xx / W23-18	20.8	4.2	4.91

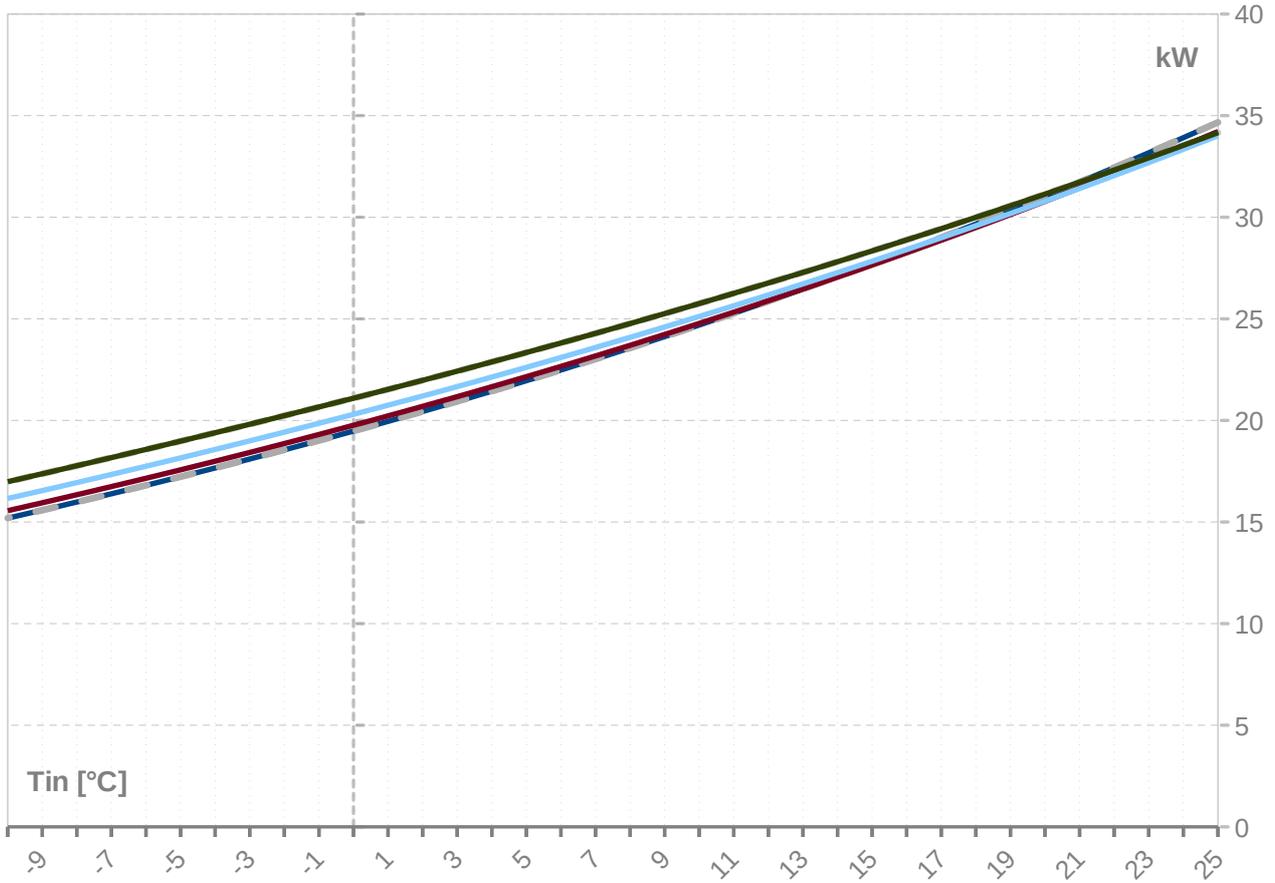
SEER DATA EN 14825:2018 [ W 23 / 18°C ]	
SEERon	5.30
SEER	5.28
Qc [ kWh ]	8880
η [ % ]	211.30

# WAMAK BW 19 EVI

ZHI18K1P-TFM\_R410A\_1\_BWW

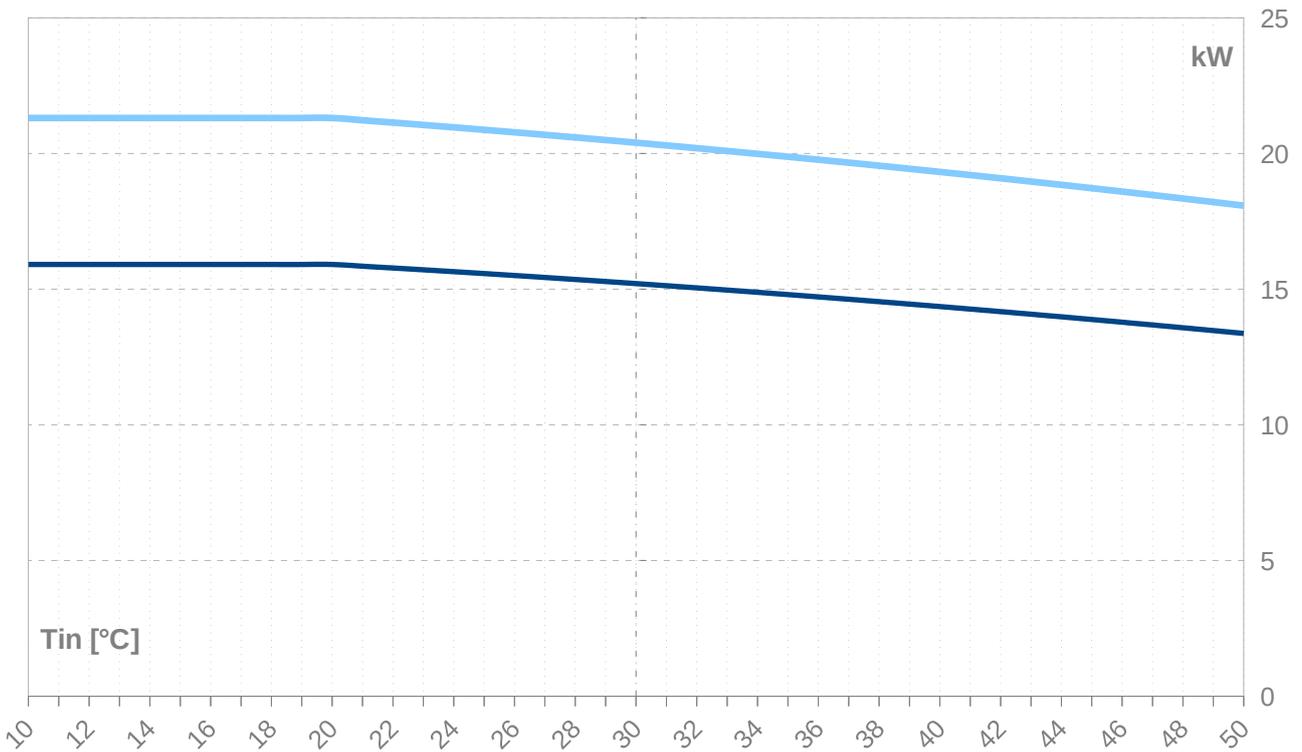
## Performance lines - heating

— Qh-nom-35 — Qh-min-35 — Qh-max-65 — Qh-nom-45 — Qh-nom-55  
— Qh-nom-65



## Performance lines - cooling

— Qc-nom-12-7 — Qc-nom-23-18



Th -OU	35										
[°C]	Qh nom [kW]	Qh min [kW]	Qh max [kW]	Pin nom [kW]	Pin min [kW]	Pin max [kW]	COP nom kW / kW	Qc nom [kW]	Qc min [kW]	Qc max [kW]	I nom [A]
25	<b>34.7</b>	34.7	34.7	<b>4.3</b>	4.3	4.3	<b>8.10</b>	30.7	30.7	30.7	9.3
24	<b>33.9</b>	33.9	33.9	<b>4.3</b>	4.3	4.3	<b>7.93</b>	29.9	29.9	29.9	9.3
23	<b>33.2</b>	33.2	33.2	<b>4.3</b>	4.3	4.3	<b>7.76</b>	29.2	29.2	29.2	9.3
22	<b>32.4</b>	32.4	32.4	<b>4.3</b>	4.3	4.3	<b>7.60</b>	28.5	28.5	28.5	9.3
21	<b>31.7</b>	31.7	31.7	<b>4.3</b>	4.3	4.3	<b>7.43</b>	27.7	27.7	27.7	9.3
20	<b>31.0</b>	31.0	31.0	<b>4.3</b>	4.3	4.3	<b>7.27</b>	27.0	27.0	27.0	9.3
19	<b>30.3</b>	30.3	30.3	<b>4.3</b>	4.3	4.3	<b>7.11</b>	26.4	26.4	26.4	9.3
18	<b>29.7</b>	29.7	29.7	<b>4.3</b>	4.3	4.3	<b>6.95</b>	25.7	25.7	25.7	9.3
17	<b>29.0</b>	29.0	29.0	<b>4.3</b>	4.3	4.3	<b>6.79</b>	25.0	25.0	25.0	9.3
16	<b>28.3</b>	28.3	28.3	<b>4.3</b>	4.3	4.3	<b>6.64</b>	24.4	24.4	24.4	9.3
15	<b>27.7</b>	27.7	27.7	<b>4.3</b>	4.3	4.3	<b>6.48</b>	23.7	23.7	23.7	9.3
14	<b>27.1</b>	27.1	27.1	<b>4.3</b>	4.3	4.3	<b>6.33</b>	23.1	23.1	23.1	9.3
13	<b>26.5</b>	26.5	26.5	<b>4.3</b>	4.3	4.3	<b>6.18</b>	22.5	22.5	22.5	9.3
12	<b>25.9</b>	25.9	25.9	<b>4.3</b>	4.3	4.3	<b>6.04</b>	21.9	21.9	21.9	9.3
11	<b>25.3</b>	25.3	25.3	<b>4.3</b>	4.3	4.3	<b>5.90</b>	21.3	21.3	21.3	9.3
10	<b>24.7</b>	24.7	24.7	<b>4.3</b>	4.3	4.3	<b>5.76</b>	20.7	20.7	20.7	9.4
9	<b>24.1</b>	24.1	24.1	<b>4.3</b>	4.3	4.3	<b>5.62</b>	20.1	20.1	20.1	9.4
8	<b>23.6</b>	23.6	23.6	<b>4.3</b>	4.3	4.3	<b>5.48</b>	19.6	19.6	19.6	9.4
7	<b>23.0</b>	23.0	23.0	<b>4.3</b>	4.3	4.3	<b>5.35</b>	19.0	19.0	19.0	9.4
6	<b>22.5</b>	22.5	22.5	<b>4.3</b>	4.3	4.3	<b>5.22</b>	18.5	18.5	18.5	9.4
5	<b>22.0</b>	22.0	22.0	<b>4.3</b>	4.3	4.3	<b>5.09</b>	17.9	17.9	17.9	9.4
4	<b>21.4</b>	21.4	21.4	<b>4.3</b>	4.3	4.3	<b>4.97</b>	17.4	17.4	17.4	9.4
3	<b>20.9</b>	20.9	20.9	<b>4.3</b>	4.3	4.3	<b>4.85</b>	16.9	16.9	16.9	9.4
2	<b>20.4</b>	20.4	20.4	<b>4.3</b>	4.3	4.3	<b>4.73</b>	16.4	16.4	16.4	9.4
1	<b>20.0</b>	20.0	20.0	<b>4.3</b>	4.3	4.3	<b>4.61</b>	15.9	15.9	15.9	9.4
0	<b>19.5</b>	19.5	19.5	<b>4.3</b>	4.3	4.3	<b>4.50</b>	15.4	15.4	15.4	9.4
-1	<b>19.0</b>	19.0	19.0	<b>4.3</b>	4.3	4.3	<b>4.39</b>	15.0	15.0	15.0	9.4
-2	<b>18.5</b>	18.5	18.5	<b>4.3</b>	4.3	4.3	<b>4.28</b>	14.5	14.5	14.5	9.4
-3	<b>18.1</b>	18.1	18.1	<b>4.3</b>	4.3	4.3	<b>4.17</b>	14.0	14.0	14.0	9.4
-4	<b>17.7</b>	17.7	17.7	<b>4.3</b>	4.3	4.3	<b>4.07</b>	13.6	13.6	13.6	9.4
-5	<b>17.2</b>	17.2	17.2	<b>4.3</b>	4.3	4.3	<b>3.97</b>	13.2	13.2	13.2	9.4
-6	<b>16.8</b>	16.8	16.8	<b>4.3</b>	4.3	4.3	<b>3.87</b>	12.7	12.7	12.7	9.4
-7	<b>16.4</b>	16.4	16.4	<b>4.3</b>	4.3	4.3	<b>3.77</b>	12.3	12.3	12.3	9.4
-8	<b>16.0</b>	16.0	16.0	<b>4.3</b>	4.3	4.3	<b>3.68</b>	11.9	11.9	11.9	9.4
-9	<b>15.6</b>	15.6	15.6	<b>4.3</b>	4.3	4.3	<b>3.59</b>	11.5	11.5	11.5	9.4
-10	<b>15.2</b>	15.2	15.2	<b>4.3</b>	4.3	4.3	<b>3.50</b>	11.1	11.1	11.1	9.4
-11	<b>14.8</b>	14.8	14.8	<b>4.3</b>	4.3	4.3	<b>3.41</b>	10.8	10.8	10.8	9.4
-12	<b>14.4</b>	14.4	14.4	<b>4.3</b>	4.3	4.3	<b>3.33</b>	10.4	10.4	10.4	9.4
-13	<b>14.1</b>	14.1	14.1	<b>4.3</b>	4.3	4.3	<b>3.25</b>	10.0	10.0	10.0	9.4
-14	<b>13.7</b>	13.7	13.7	<b>4.3</b>	4.3	4.3	<b>3.17</b>	9.7	9.7	9.7	9.4
-15	<b>13.3</b>	13.3	13.3	<b>4.3</b>	4.3	4.3	<b>3.09</b>	9.3	9.3	9.3	9.4

-- attention: operating limits not reflected in performance table

ZHI18K1P-TFM\_R410A\_1\_BWW

Th -OU	45										
[°C]	Qh nom [kW]	Qh min [kW]	Qh max [kW]	Pin nom [kW]	Pin min [kW]	Pin max [kW]	COP nom kW / kW	Qc nom [kW]	Qc min [kW]	Qc max [kW]	I nom [A]
25	<b>34.2</b>	34.2	34.2	<b>5.3</b>	5.3	5.3	<b>6.43</b>	29.2	29.2	29.2	10.4
24	<b>33.5</b>	33.5	33.5	<b>5.3</b>	5.3	5.3	<b>6.29</b>	28.5	28.5	28.5	10.4
23	<b>32.8</b>	32.8	32.8	<b>5.3</b>	5.3	5.3	<b>6.15</b>	27.8	27.8	27.8	10.4
22	<b>32.1</b>	32.1	32.1	<b>5.3</b>	5.3	5.3	<b>6.02</b>	27.1	27.1	27.1	10.4
21	<b>31.4</b>	31.4	31.4	<b>5.3</b>	5.3	5.3	<b>5.88</b>	26.5	26.5	26.5	10.4
20	<b>30.8</b>	30.8	30.8	<b>5.4</b>	5.4	5.4	<b>5.75</b>	25.8	25.8	25.8	10.4
19	<b>30.1</b>	30.1	30.1	<b>5.4</b>	5.4	5.4	<b>5.62</b>	25.1	25.1	25.1	10.4
18	<b>29.5</b>	29.5	29.5	<b>5.4</b>	5.4	5.4	<b>5.50</b>	24.5	24.5	24.5	10.4
17	<b>28.9</b>	28.9	28.9	<b>5.4</b>	5.4	5.4	<b>5.37</b>	23.8	23.8	23.8	10.4
16	<b>28.2</b>	28.2	28.2	<b>5.4</b>	5.4	5.4	<b>5.25</b>	23.2	23.2	23.2	10.4
15	<b>27.6</b>	27.6	27.6	<b>5.4</b>	5.4	5.4	<b>5.13</b>	22.6	22.6	22.6	10.5
14	<b>27.0</b>	27.0	27.0	<b>5.4</b>	5.4	5.4	<b>5.02</b>	22.0	22.0	22.0	10.5
13	<b>26.5</b>	26.5	26.5	<b>5.4</b>	5.4	5.4	<b>4.90</b>	21.4	21.4	21.4	10.5
12	<b>25.9</b>	25.9	25.9	<b>5.4</b>	5.4	5.4	<b>4.79</b>	20.8	20.8	20.8	10.5
11	<b>25.3</b>	25.3	25.3	<b>5.4</b>	5.4	5.4	<b>4.68</b>	20.3	20.3	20.3	10.5
10	<b>24.8</b>	24.8	24.8	<b>5.4</b>	5.4	5.4	<b>4.57</b>	19.7	19.7	19.7	10.5
9	<b>24.2</b>	24.2	24.2	<b>5.4</b>	5.4	5.4	<b>4.47</b>	19.2	19.2	19.2	10.5
8	<b>23.7</b>	23.7	23.7	<b>5.4</b>	5.4	5.4	<b>4.37</b>	18.6	18.6	18.6	10.5
7	<b>23.2</b>	23.2	23.2	<b>5.4</b>	5.4	5.4	<b>4.27</b>	18.1	18.1	18.1	10.5
6	<b>22.7</b>	22.7	22.7	<b>5.4</b>	5.4	5.4	<b>4.17</b>	17.6	17.6	17.6	10.5
5	<b>22.2</b>	22.2	22.2	<b>5.4</b>	5.4	5.4	<b>4.07</b>	17.1	17.1	17.1	10.5
4	<b>21.7</b>	21.7	21.7	<b>5.4</b>	5.4	5.4	<b>3.98</b>	16.6	16.6	16.6	10.5
3	<b>21.2</b>	21.2	21.2	<b>5.4</b>	5.4	5.4	<b>3.89</b>	16.1	16.1	16.1	10.5
2	<b>20.7</b>	20.7	20.7	<b>5.4</b>	5.4	5.4	<b>3.80</b>	15.6	15.6	15.6	10.5
1	<b>20.2</b>	20.2	20.2	<b>5.4</b>	5.4	5.4	<b>3.71</b>	15.1	15.1	15.1	10.5
0	<b>19.8</b>	19.8	19.8	<b>5.4</b>	5.4	5.4	<b>3.63</b>	14.7	14.7	14.7	10.5
-1	<b>19.3</b>	19.3	19.3	<b>5.4</b>	5.4	5.4	<b>3.54</b>	14.2	14.2	14.2	10.5
-2	<b>18.9</b>	18.9	18.9	<b>5.4</b>	5.4	5.4	<b>3.46</b>	13.8	13.8	13.8	10.5
-3	<b>18.4</b>	18.4	18.4	<b>5.4</b>	5.4	5.4	<b>3.38</b>	13.3	13.3	13.3	10.5
-4	<b>18.0</b>	18.0	18.0	<b>5.4</b>	5.4	5.4	<b>3.31</b>	12.9	12.9	12.9	10.5
-5	<b>17.6</b>	17.6	17.6	<b>5.4</b>	5.4	5.4	<b>3.23</b>	12.5	12.5	12.5	10.5
-6	<b>17.2</b>	17.2	17.2	<b>5.4</b>	5.4	5.4	<b>3.16</b>	12.1	12.1	12.1	10.5
-7	<b>16.7</b>	16.7	16.7	<b>5.4</b>	5.4	5.4	<b>3.09</b>	11.7	11.7	11.7	10.5
-8	<b>16.3</b>	16.3	16.3	<b>5.4</b>	5.4	5.4	<b>3.02</b>	11.3	11.3	11.3	10.5
-9	<b>15.9</b>	15.9	15.9	<b>5.4</b>	5.4	5.4	<b>2.95</b>	10.9	10.9	10.9	10.5
-10	<b>15.6</b>	15.6	15.6	<b>5.4</b>	5.4	5.4	<b>2.88</b>	10.5	10.5	10.5	10.5
-11	<b>15.2</b>	15.2	15.2	<b>5.4</b>	5.4	5.4	<b>2.82</b>	10.1	10.1	10.1	10.5
-12	<b>14.8</b>	14.8	14.8	<b>5.4</b>	5.4	5.4	<b>2.75</b>	9.8	9.8	9.8	10.5
-13	<b>14.4</b>	14.4	14.4	<b>5.4</b>	5.4	5.4	<b>2.69</b>	9.4	9.4	9.4	10.4
-14	<b>14.1</b>	14.1	14.1	<b>5.3</b>	5.3	5.3	<b>2.63</b>	9.1	9.1	9.1	10.4
-15	<b>13.7</b>	13.7	13.7	<b>5.3</b>	5.3	5.3	<b>2.57</b>	8.7	8.7	8.7	10.4

-- attention: operating limits not reflected in performance table

Th -OU	55										
Ts -IN [°C]	Qh nom [kW]	Qh min [kW]	Qh max [kW]	Pin nom [kW]	Pin min [kW]	Pin max [kW]	COP nom kW / kW	Qc nom [kW]	Qc min [kW]	Qc max [kW]	I nom [A]
25	<b>34.0</b>	34.0	34.0	<b>7.0</b>	7.0	7.0	<b>4.85</b>	27.5	27.5	27.5	12.3
24	<b>33.3</b>	33.3	33.3	<b>7.0</b>	7.0	7.0	<b>4.75</b>	26.8	26.8	26.8	12.3
23	<b>32.7</b>	32.7	32.7	<b>7.0</b>	7.0	7.0	<b>4.65</b>	26.1	26.1	26.1	12.3
22	<b>32.0</b>	32.0	32.0	<b>7.0</b>	7.0	7.0	<b>4.55</b>	25.5	25.5	25.5	12.3
21	<b>31.4</b>	31.4	31.4	<b>7.1</b>	7.1	7.1	<b>4.46</b>	24.8	24.8	24.8	12.3
20	<b>30.8</b>	30.8	30.8	<b>7.1</b>	7.1	7.1	<b>4.36</b>	24.2	24.2	24.2	12.3
19	<b>30.2</b>	30.2	30.2	<b>7.1</b>	7.1	7.1	<b>4.27</b>	23.6	23.6	23.6	12.4
18	<b>29.6</b>	29.6	29.6	<b>7.1</b>	7.1	7.1	<b>4.18</b>	23.0	23.0	23.0	12.4
17	<b>29.0</b>	29.0	29.0	<b>7.1</b>	7.1	7.1	<b>4.09</b>	22.4	22.4	22.4	12.4
16	<b>28.4</b>	28.4	28.4	<b>7.1</b>	7.1	7.1	<b>4.01</b>	21.8	21.8	21.8	12.4
15	<b>27.8</b>	27.8	27.8	<b>7.1</b>	7.1	7.1	<b>3.92</b>	21.2	21.2	21.2	12.4
14	<b>27.3</b>	27.3	27.3	<b>7.1</b>	7.1	7.1	<b>3.84</b>	20.6	20.6	20.6	12.4
13	<b>26.7</b>	26.7	26.7	<b>7.1</b>	7.1	7.1	<b>3.76</b>	20.1	20.1	20.1	12.4
12	<b>26.2</b>	26.2	26.2	<b>7.1</b>	7.1	7.1	<b>3.68</b>	19.5	19.5	19.5	12.4
11	<b>25.6</b>	25.6	25.6	<b>7.1</b>	7.1	7.1	<b>3.60</b>	19.0	19.0	19.0	12.4
10	<b>25.1</b>	25.1	25.1	<b>7.1</b>	7.1	7.1	<b>3.53</b>	18.5	18.5	18.5	12.4
9	<b>24.6</b>	24.6	24.6	<b>7.1</b>	7.1	7.1	<b>3.45</b>	18.0	18.0	18.0	12.4
8	<b>24.1</b>	24.1	24.1	<b>7.1</b>	7.1	7.1	<b>3.38</b>	17.4	17.4	17.4	12.4
7	<b>23.6</b>	23.6	23.6	<b>7.1</b>	7.1	7.1	<b>3.31</b>	16.9	16.9	16.9	12.4
6	<b>23.1</b>	23.1	23.1	<b>7.1</b>	7.1	7.1	<b>3.24</b>	16.4	16.4	16.4	12.4
5	<b>22.6</b>	22.6	22.6	<b>7.1</b>	7.1	7.1	<b>3.18</b>	16.0	16.0	16.0	12.4
4	<b>22.1</b>	22.1	22.1	<b>7.1</b>	7.1	7.1	<b>3.11</b>	15.5	15.5	15.5	12.4
3	<b>21.7</b>	21.7	21.7	<b>7.1</b>	7.1	7.1	<b>3.05</b>	15.0	15.0	15.0	12.4
2	<b>21.2</b>	21.2	21.2	<b>7.1</b>	7.1	7.1	<b>2.99</b>	14.6	14.6	14.6	12.4
1	<b>20.7</b>	20.7	20.7	<b>7.1</b>	7.1	7.1	<b>2.92</b>	14.1	14.1	14.1	12.4
0	<b>20.3</b>	20.3	20.3	<b>7.1</b>	7.1	7.1	<b>2.86</b>	13.7	13.7	13.7	12.4
-1	<b>19.9</b>	19.9	19.9	<b>7.1</b>	7.1	7.1	<b>2.81</b>	13.2	13.2	13.2	12.4
-2	<b>19.4</b>	19.4	19.4	<b>7.1</b>	7.1	7.1	<b>2.75</b>	12.8	12.8	12.8	12.3
-3	<b>19.0</b>	19.0	19.0	<b>7.1</b>	7.1	7.1	<b>2.69</b>	12.4	12.4	12.4	12.3
-4	<b>18.6</b>	18.6	18.6	<b>7.0</b>	7.0	7.0	<b>2.64</b>	12.0	12.0	12.0	12.3
-5	<b>18.2</b>	18.2	18.2	<b>7.0</b>	7.0	7.0	<b>2.59</b>	11.6	11.6	11.6	12.3
-6	<b>17.7</b>	17.7	17.7	<b>7.0</b>	7.0	7.0	<b>2.53</b>	11.2	11.2	11.2	12.3
-7	<b>17.3</b>	17.3	17.3	<b>7.0</b>	7.0	7.0	<b>2.48</b>	10.8	10.8	10.8	12.3
-8	<b>16.9</b>	16.9	16.9	<b>7.0</b>	7.0	7.0	<b>2.43</b>	10.4	10.4	10.4	12.2
-9	<b>16.5</b>	16.5	16.5	<b>6.9</b>	6.9	6.9	<b>2.39</b>	10.1	10.1	10.1	12.2
-10	<b>16.2</b>	16.2	16.2	<b>6.9</b>	6.9	6.9	<b>2.34</b>	9.7	9.7	9.7	12.2
-11	<b>15.8</b>	15.8	15.8	<b>6.9</b>	6.9	6.9	<b>2.29</b>	9.3	9.3	9.3	12.1
-12	<b>15.4</b>	15.4	15.4	<b>6.9</b>	6.9	6.9	<b>2.25</b>	9.0	9.0	9.0	12.1
-13	<b>15.0</b>	15.0	15.0	<b>6.8</b>	6.8	6.8	<b>2.20</b>	8.6	8.6	8.6	12.1
-14	<b>14.7</b>	14.7	14.7	<b>6.8</b>	6.8	6.8	<b>2.16</b>	8.3	8.3	8.3	12.0
-15	<b>14.3</b>	14.3	14.3	<b>6.8</b>	6.8	6.8	<b>2.11</b>	8.0	8.0	8.0	12.0

-- attention: operating limits not reflected in performance table

Th -OU	65 (T-max)										
[°C]	Qh nom [kW]	Qh min [kW]	Qh max [kW]	Pin nom [kW]	Pin min [kW]	Pin max [kW]	COP nom kW / kW	Qc nom [kW]	Qc min [kW]	Qc max [kW]	I nom [A]
25	<b>34.2</b>	34.2	34.2	<b>9.2</b>	9.2	9.2	<b>3.71</b>	25.6	25.6	25.6	15.1
24	<b>33.5</b>	33.5	33.5	<b>9.2</b>	9.2	9.2	<b>3.63</b>	24.9	24.9	24.9	15.1
23	<b>32.9</b>	32.9	32.9	<b>9.2</b>	9.2	9.2	<b>3.56</b>	24.3	24.3	24.3	15.1
22	<b>32.3</b>	32.3	32.3	<b>9.2</b>	9.2	9.2	<b>3.50</b>	23.7	23.7	23.7	15.1
21	<b>31.7</b>	31.7	31.7	<b>9.3</b>	9.3	9.3	<b>3.43</b>	23.1	23.1	23.1	15.1
20	<b>31.1</b>	31.1	31.1	<b>9.3</b>	9.3	9.3	<b>3.36</b>	22.5	22.5	22.5	15.1
19	<b>30.6</b>	30.6	30.6	<b>9.3</b>	9.3	9.3	<b>3.30</b>	21.9	21.9	21.9	15.1
18	<b>30.0</b>	30.0	30.0	<b>9.3</b>	9.3	9.3	<b>3.24</b>	21.3	21.3	21.3	15.1
17	<b>29.4</b>	29.4	29.4	<b>9.3</b>	9.3	9.3	<b>3.17</b>	20.8	20.8	20.8	15.1
16	<b>28.9</b>	28.9	28.9	<b>9.3</b>	9.3	9.3	<b>3.11</b>	20.2	20.2	20.2	15.1
15	<b>28.3</b>	28.3	28.3	<b>9.3</b>	9.3	9.3	<b>3.06</b>	19.7	19.7	19.7	15.1
14	<b>27.8</b>	27.8	27.8	<b>9.3</b>	9.3	9.3	<b>3.00</b>	19.1	19.1	19.1	15.1
13	<b>27.3</b>	27.3	27.3	<b>9.3</b>	9.3	9.3	<b>2.94</b>	18.6	18.6	18.6	15.1
12	<b>26.8</b>	26.8	26.8	<b>9.3</b>	9.3	9.3	<b>2.89</b>	18.1	18.1	18.1	15.1
11	<b>26.3</b>	26.3	26.3	<b>9.3</b>	9.3	9.3	<b>2.83</b>	17.6	17.6	17.6	15.1
10	<b>25.8</b>	25.8	25.8	<b>9.3</b>	9.3	9.3	<b>2.78</b>	17.1	17.1	17.1	15.1
9	<b>25.3</b>	25.3	25.3	<b>9.2</b>	9.2	9.2	<b>2.73</b>	16.6	16.6	16.6	15.1
8	<b>24.8</b>	24.8	24.8	<b>9.2</b>	9.2	9.2	<b>2.68</b>	16.1	16.1	16.1	15.1
7	<b>24.3</b>	24.3	24.3	<b>9.2</b>	9.2	9.2	<b>2.63</b>	15.7	15.7	15.7	15.1
6	<b>23.8</b>	23.8	23.8	<b>9.2</b>	9.2	9.2	<b>2.58</b>	15.2	15.2	15.2	15.1
5	<b>23.3</b>	23.3	23.3	<b>9.2</b>	9.2	9.2	<b>2.54</b>	14.7	14.7	14.7	15.0
4	<b>22.9</b>	22.9	22.9	<b>9.2</b>	9.2	9.2	<b>2.49</b>	14.3	14.3	14.3	15.0
3	<b>22.4</b>	22.4	22.4	<b>9.2</b>	9.2	9.2	<b>2.45</b>	13.9	13.9	13.9	15.0
2	<b>22.0</b>	22.0	22.0	<b>9.2</b>	9.2	9.2	<b>2.40</b>	13.4	13.4	13.4	15.0
1	<b>21.5</b>	21.5	21.5	<b>9.1</b>	9.1	9.1	<b>2.36</b>	13.0	13.0	13.0	14.9
0	<b>21.1</b>	21.1	21.1	<b>9.1</b>	9.1	9.1	<b>2.32</b>	12.6	12.6	12.6	14.9
-1	<b>20.7</b>	20.7	20.7	<b>9.1</b>	9.1	9.1	<b>2.27</b>	12.2	12.2	12.2	14.9
-2	<b>20.2</b>	20.2	20.2	<b>9.1</b>	9.1	9.1	<b>2.23</b>	11.8	11.8	11.8	14.9
-3	<b>19.8</b>	19.8	19.8	<b>9.0</b>	9.0	9.0	<b>2.19</b>	11.4	11.4	11.4	14.8
-4	<b>19.4</b>	19.4	19.4	<b>9.0</b>	9.0	9.0	<b>2.16</b>	11.0	11.0	11.0	14.8
-5	<b>19.0</b>	19.0	19.0	<b>9.0</b>	9.0	9.0	<b>2.12</b>	10.6	10.6	10.6	14.7
-6	<b>18.6</b>	18.6	18.6	<b>8.9</b>	8.9	8.9	<b>2.08</b>	10.2	10.2	10.2	14.7
-7	<b>18.2</b>	18.2	18.2	<b>8.9</b>	8.9	8.9	<b>2.04</b>	9.9	9.9	9.9	14.7
-8	<b>17.8</b>	17.8	17.8	<b>8.8</b>	8.8	8.8	<b>2.01</b>	9.5	9.5	9.5	14.6
-9	<b>17.4</b>	17.4	17.4	<b>8.8</b>	8.8	8.8	<b>1.97</b>	9.1	9.1	9.1	14.6
-10	<b>17.0</b>	17.0	17.0	<b>8.8</b>	8.8	8.8	<b>1.94</b>	8.8	8.8	8.8	14.5
-11	<b>16.6</b>	16.6	16.6	<b>8.7</b>	8.7	8.7	<b>1.90</b>	8.5	8.5	8.5	14.5
-12	<b>16.2</b>	16.2	16.2	<b>8.7</b>	8.7	8.7	<b>1.87</b>	8.1	8.1	8.1	14.4
-13	<b>15.8</b>	15.8	15.8	<b>8.6</b>	8.6	8.6	<b>1.84</b>	7.8	7.8	7.8	14.3
-14	<b>15.5</b>	15.5	15.5	<b>8.6</b>	8.6	8.6	<b>1.81</b>	7.5	7.5	7.5	14.3
-15	<b>15.1</b>	15.1	15.1	<b>8.5</b>	8.5	8.5	<b>1.77</b>	7.1	7.1	7.1	14.2

-- attention: operating limits not reflected in performance table

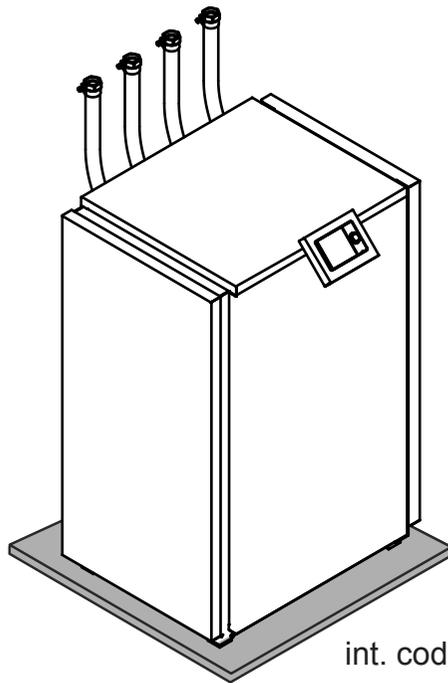
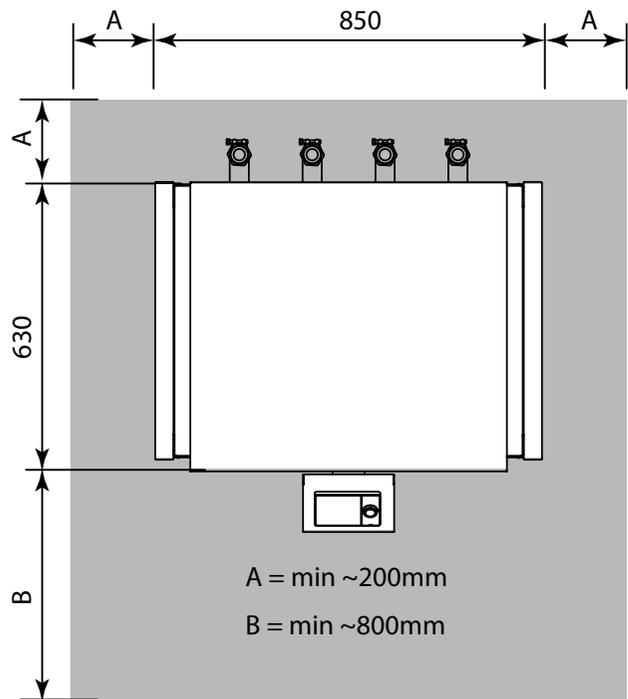
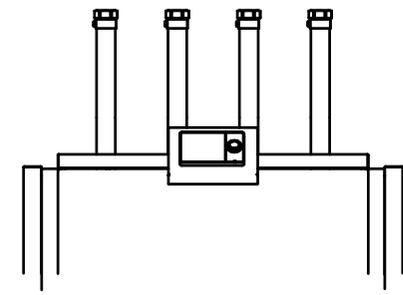
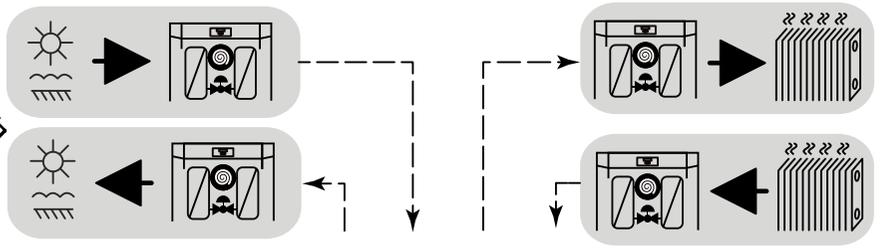
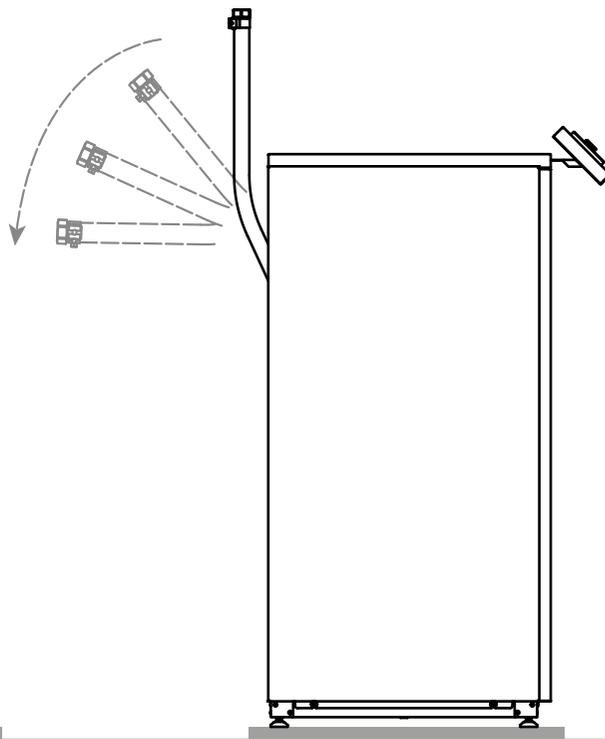
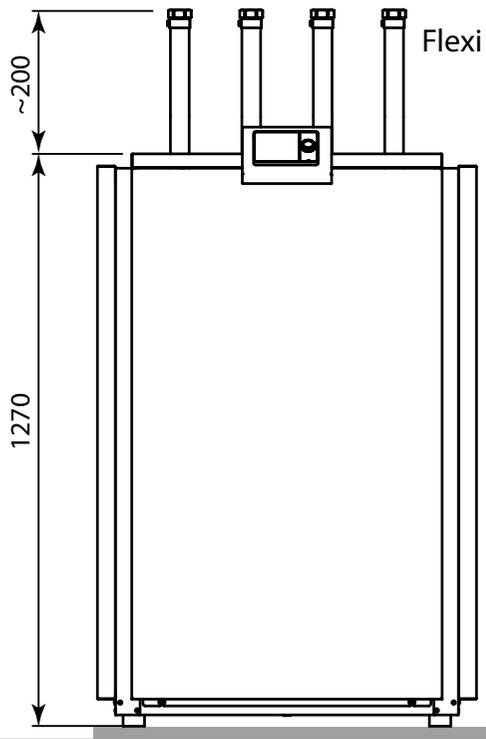
Tc -OU		W 12 / 7 °C										
Ts -IN	Qc nom	Qc min	Qc max	Pin nom	Pin min	Pin max	EER	Qh nom	Qh min	Qh max	I nom	
[°C]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	kW / kW	[kW]	[kW]	[kW]	[A]	
40	<b>14.4</b>	14.4	14.4	<b>5.9</b>	5.9	5.9	<b>2.42</b>	19.9	19.9	19.9	11.1	
39	<b>14.5</b>	14.5	14.5	<b>5.8</b>	5.8	5.8	<b>2.49</b>	19.9	19.9	19.9	10.9	
38	<b>14.5</b>	14.5	14.5	<b>5.7</b>	5.7	5.7	<b>2.57</b>	19.8	19.8	19.8	10.7	
37	<b>14.6</b>	14.6	14.6	<b>5.5</b>	5.5	5.5	<b>2.65</b>	19.8	19.8	19.8	10.6	
36	<b>14.7</b>	14.7	14.7	<b>5.4</b>	5.4	5.4	<b>2.73</b>	19.7	19.7	19.7	10.5	
35	<b>14.8</b>	14.8	14.8	<b>5.2</b>	5.2	5.2	<b>2.82</b>	19.7	19.7	19.7	10.3	
34	<b>14.9</b>	14.9	14.9	<b>5.1</b>	5.1	5.1	<b>2.91</b>	19.7	19.7	19.7	10.2	
33	<b>15.0</b>	15.0	15.0	<b>5.0</b>	5.0	5.0	<b>2.99</b>	19.6	19.6	19.6	10.1	
32	<b>15.0</b>	15.0	15.0	<b>4.9</b>	4.9	4.9	<b>3.08</b>	19.6	19.6	19.6	9.9	
31	<b>15.1</b>	15.1	15.1	<b>4.8</b>	4.8	4.8	<b>3.18</b>	19.6	19.6	19.6	9.8	
30	<b>15.2</b>	15.2	15.2	<b>4.6</b>	4.6	4.6	<b>3.27</b>	19.5	19.5	19.5	9.7	
29	<b>15.3</b>	15.3	15.3	<b>4.5</b>	4.5	4.5	<b>3.37</b>	19.5	19.5	19.5	9.6	
28	<b>15.4</b>	15.4	15.4	<b>4.4</b>	4.4	4.4	<b>3.46</b>	19.5	19.5	19.5	9.5	
27	<b>15.4</b>	15.4	15.4	<b>4.3</b>	4.3	4.3	<b>3.56</b>	19.5	19.5	19.5	9.4	
26	<b>15.5</b>	15.5	15.5	<b>4.2</b>	4.2	4.2	<b>3.67</b>	19.5	19.5	19.5	9.3	
25	<b>15.6</b>	15.6	15.6	<b>4.1</b>	4.1	4.1	<b>3.77</b>	19.4	19.4	19.4	9.2	
24	<b>15.6</b>	15.6	15.6	<b>4.0</b>	4.0	4.0	<b>3.87</b>	19.4	19.4	19.4	9.1	
23	<b>15.7</b>	15.7	15.7	<b>3.9</b>	3.9	3.9	<b>3.98</b>	19.4	19.4	19.4	9.0	
22	<b>15.8</b>	15.8	15.8	<b>3.9</b>	3.9	3.9	<b>4.09</b>	19.4	19.4	19.4	8.9	
21	<b>15.8</b>	15.8	15.8	<b>3.8</b>	3.8	3.8	<b>4.20</b>	19.4	19.4	19.4	8.9	
20	<b>15.9</b>	15.9	15.9	<b>3.7</b>	3.7	3.7	<b>4.31</b>	19.4	19.4	19.4	8.8	

Tc [°C]		W 23 / 18 °C										
0	Qc nom	Qc min	Qc max	Pin nom	Pin min	Pin max	EER	Qh nom	Qh min	Qh max	I nom	
[°C]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	kW / kW	[kW]	[kW]	[kW]	[A]	
40	<b>19.3</b>	19.3	19.3	<b>5.9</b>	5.9	5.9	<b>3.25</b>	24.9	24.9	25.3	11.0	
39	<b>19.4</b>	19.4	19.4	<b>5.8</b>	5.8	5.8	<b>3.35</b>	24.8	24.8	25.2	10.9	
38	<b>19.6</b>	19.6	19.6	<b>5.7</b>	5.7	5.7	<b>3.46</b>	24.8	24.8	25.2	10.7	
37	<b>19.7</b>	19.7	19.7	<b>5.5</b>	5.5	5.5	<b>3.56</b>	24.8	24.8	25.1	10.6	
36	<b>19.8</b>	19.8	19.8	<b>5.4</b>	5.4	5.4	<b>3.67</b>	24.8	24.8	25.1	10.4	
35	<b>19.9</b>	19.9	19.9	<b>5.2</b>	5.2	5.2	<b>3.79</b>	24.7	24.7	25.0	10.3	
34	<b>20.0</b>	20.0	20.0	<b>5.1</b>	5.1	5.1	<b>3.90</b>	24.7	24.7	25.0	10.1	
33	<b>20.1</b>	20.1	20.1	<b>5.0</b>	5.0	5.0	<b>4.02</b>	24.7	24.7	25.0	10.0	
32	<b>20.2</b>	20.2	20.2	<b>4.9</b>	4.9	4.9	<b>4.14</b>	24.7	24.7	24.9	9.9	
31	<b>20.3</b>	20.3	20.3	<b>4.8</b>	4.8	4.8	<b>4.26</b>	24.7	24.7	24.9	9.8	
30	<b>20.4</b>	20.4	20.4	<b>4.6</b>	4.6	4.6	<b>4.39</b>	24.7	24.7	24.9	9.7	
29	<b>20.5</b>	20.5	20.5	<b>4.5</b>	4.5	4.5	<b>4.52</b>	24.7	24.7	24.8	9.6	
28	<b>20.6</b>	20.6	20.6	<b>4.4</b>	4.4	4.4	<b>4.65</b>	24.7	24.7	24.8	9.5	
27	<b>20.7</b>	20.7	20.7	<b>4.3</b>	4.3	4.3	<b>4.78</b>	24.7	24.7	24.8	9.4	
26	<b>20.8</b>	20.8	20.8	<b>4.2</b>	4.2	4.2	<b>4.91</b>	24.7	24.7	24.8	9.3	
25	<b>20.9</b>	20.9	20.9	<b>4.1</b>	4.1	4.1	<b>5.05</b>	24.7	24.7	24.7	9.2	
24	<b>21.0</b>	21.0	21.0	<b>4.0</b>	4.0	4.0	<b>5.19</b>	24.7	24.7	24.7	9.1	
23	<b>21.1</b>	21.1	21.1	<b>3.9</b>	3.9	3.9	<b>5.33</b>	24.7	24.7	24.7	9.0	
22	<b>21.1</b>	21.1	21.1	<b>3.9</b>	3.9	3.9	<b>5.48</b>	24.7	24.7	24.7	8.9	
21	<b>21.2</b>	21.2	21.2	<b>3.8</b>	3.8	3.8	<b>5.62</b>	24.7	24.7	24.7	8.9	
20	<b>21.3</b>	21.3	21.3	<b>3.7</b>	3.7	3.7	<b>5.77</b>	24.7	24.7	24.7	8.8	

-- attention: operating limits not reflected in performance table

LEGEND:

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



int. code: VN800

