



## Heat pump



# *AiWa 23 EVI*

# *H-Twin In*

# WAMAK AiWa 23 EVI H-Twin 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.

The twin compressors give the system robustness and the ability to distribute the heat output according to the actual load.

Indoor monoblock

## Product features

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- Scroll compressor
- EVI technology
- Asymmetric plate heat exchanger
- Two-stage capacity control
- 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
- Multi-stage capacity control
- 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-Twin In

Heating - EN 14511		
Heating capacity [kW]	A7 / W35	24.4 ( 12.2 / 24.4 )
	A2 / W35	20.9 ( 10.4 / 20.9 )
	A-7 / W34	17.3 ( 8.6 / 17.3 )
Electrical power input [kW]	A7 / W35	5.1 ( 2.5 / 5.1 )
	A2 / W35	5.2 ( 2.5 / 5.2 )
	A-7 / W34	5.0 ( 2.4 / 5.0 )
Heating efficiency faktor [COP]	A7 / W35	4.77
	A2 / W35	4.04
	A-7 / W34	3.43
Seasonal space heating energy efficiency - SCOP EN 14825		
Average Climate / Low Temperature [35 °C]	SCOP	4.69
	$\eta$ [%]	187.4
	Label	A+++
	Qhe [ kWh ]	40493.6
	Pdesignh [ kW ]	19.6
	Tbivalent [ °C ]	-7
Cooling		
Cooling capacity - [kW]	A35 / W23-18	23.0
	A25 / W23-18	24.7
	A35 / W12-7	17.1
	A25 / W12-7	17.1
Seasonal space cooling energy efficiency - SEER EN 14825		
[ W 23 / 18 °C ]	SEER	4.66
	Qce [ kWh ]	10260.0
	$\eta_c$ [%]	186.3
Sound EN 12102		
Acoustic power - Lw	dB(A)	67.5
Acoustic pressure - Lp	1 m dB(A)	59.5
	5 m dB(A)	45.5
	10 m dB(A)	39.5
Mechanical and operational information		
Compressor type (3~ 400/50)	SCROLL / 2 /	On/Off
Refrigerant	R410A (GWP - 2088)	8.9 kg
Operating limit temperatures heating - (min / max ) [ °C ]		25 / 65
Operating limit temperatures source - (min / max ) [ °C ]		-22 / 40
Weight		330 kg

## Main technical data - WAMAK AiWa 23 EVI H-Twin In

Enclosure type		AiWa-I-1200		Heat energy rejection side data		
Basic dimensions	Height [mm]	1760		Operating limit temperatures heating	MAX [°C]	65
	Width [mm]	1420			MIN [°C]	25
	Length [mm]	660		for more see operating limits diagram		
Weight [kg]	330		Condenser	Port size	1.1/4 "	
Colour	Gray			Type	BPHE	
Enclosure IP Class	IP44			Count	1	
Refrigeration cycle				Material	AISI 316	
Compressor	Type	Scroll		Maximal operating pressure - refrigerant [bar]		45
	Number of stages	2		Maximal operating pressure - Water [bar]		6
	On/Off			Testing pressure [bar]		70
	Power factor Cosφ	0.79		Heat transfer medium		Water
	Winding resistance	3.20 Ohm		Volume flow @ dT 5K (nom) - Water [m3/h]		2.11 ~ 4.21
Refrigerant		R410A		Internal pressure drop - Water [kPa]		13
	Volme	8.9 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	2 x 1.25 L		@ 65°C		10 K
Maximal pressure - refrigerant [bar]		45		Renewable energy extraction side data		
	PED class	1		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]		28	
Current	nominal [A]	12.30		Heat transfer medium		Air
	maximal [A]	21.00		Volume flow - Air [m3/h]		3850 ~ 7700
	starting [A]	11.55		Internal pressure drop - Air [kPa]		0.031
Softstart	-		Temperature difference - Air		7 K	
Main safety	C32		Number of fans		1	
Control System			Fan diameter [mm]		800	
Main controller	SIEMENS	RVS 61				
Extension module	AVS75.3xx	AVS75.3xx	AVS75.372			
Bus Clip-In			Modbus OCI352			
Online connection	Web server OZW672		ToSyMo			
Superheat controller			1 - EEV H/C			

\*\*\* with accessory

## WAMAK AiWa 23 EVI H-Twin In

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

Model	AiWa 23 EVI H-Twin 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	19.6	kW	Seasonal space heating energy efficiency	$\eta_s$	187.4	%
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	17.3	kW	Tj = -7 °C	COPd	3.43	-
Tj = +2 °C	Pdh	20.8	kW	Tj = +2 °C	COPd	4.6	-
Tj = +7 °C	Pdh	24.3	kW	Tj = +7 °C	COPd	5.9	-
Tj = +12 °C	Pdh	28.3	kW	Tj = +12 °C	COPd	8.1	-
Tj = bivalent temperature	Pdh	16.7	kW	Tj = bivalent temperature	COPd	3.2	-
Tj = operation limit temperature	Pdh	12.3	kW	Tj = operation limit temperature	COPd	2.4	-
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	8.8	kW
Standby mode	Psb	0.010	kW	Type of energy input	electricity		
Crankcase heater mode	Pck	0.050	kW				
Other items							
Capacity control	multi-stage			For air-to-water heat pumps: Rated air flow rate, outdoors	-	3850 ~ 7700	m <sup>3</sup> /h
Sound power level				For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	---	m <sup>3</sup> /h
indoors	Lwa	68	dB				
outdoors	Lwa	---	dB				
Annual energy consumption	Q <sub>HE</sub>	40493.6	kWh				

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

Model	AiWa 23 EVI H-Twin 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	20.7	kW	Seasonal space heating energy efficiency	$\eta_s$	141.3	%
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	18.1	kW	Tj = -7 °C	COPd	2.29	-
Tj = +2 °C	Pdh	21.0	kW	Tj = +2 °C	COPd	3.4	-
Tj = +7 °C	Pdh	24.4	kW	Tj = +7 °C	COPd	4.6	-
Tj = +12 °C	Pdh	28.4	kW	Tj = +12 °C	COPd	6.6	-
Tj = bivalent temperature	Pdh	17.8	kW	Tj = bivalent temperature	COPd	2.1	-
Tj = operation limit temperature	Pdh	14.0	kW	Tj = operation limit temperature	COPd	1.6	-
Bivalent temperature	Tbiv	-7	°C	Tj = operation limit temperature	TOL	-22	°C
Power consumption in modes other than active mode				Heating water operating limit temperature	WTOL	65	°C
Off mode	Poff	0.010	kW	Supplementary heater			
Thermostat-off mode	Pto	0.010	kW	Rated heat output	Psup	8.8	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			
Other items				For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			
Capacity control	multi-stage			-	3850 ~ 7700	m3/h	
Sound power level				-	---	m3/h	
indoors	Lwa	68	dB				
outdoors	Lwa	---	dB				
Annual energy consumption	QHE	42766.2	kWh				

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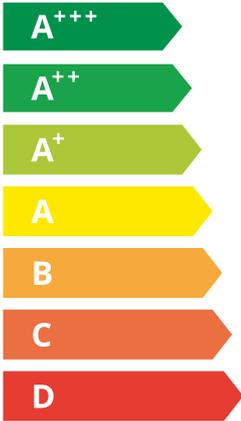


AiWa 23 EVI H-Twin In



55 °C

35 °C



68 dB

--- dB

■ 22	■ 20
■ 21	■ 20
■ 21	■ 19

kW kW

2019

811/2013

AiWa 23 EVI H-Twin In

**ErP Data**

	55 °C	35 °C
Energy class	<b>A++</b>	<b>A+++</b>
$\eta$ [%]	141.3	187.4
$P_{rated}$ [kW]	21	20
$Q_{HE}$ [kWh/y]	42767	40494
SCOP [-]	3.53	4.69
$T_{bivalent}$ [°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]

ZHI11K1P-TFM\_R410A\_2\_AW

Operating conditions		Qh	P	COP
1	A7 / W30-35	24.4	5.1	4.77
2	A2 / W35	20.9	5.2	4.04
3	A-22 / W35	12.3	5.1	2.42
A	A-7 / W34	17.3	5.0	3.43
B	A2 / W30	20.8	4.5	4.57
C	A7 / W27	24.3	4.1	5.94
D	A12 / W24	28.3	3.5	8.09
E	A-10 / W35	16.7	5.2	3.25
F	A-7 / W34	17.3	5.0	3.43

SCOP DATA EN 14825:2018	
<b>Average Climate / Low Temperature [35°C]</b>	
SCOPon	4.81
SCOPnet	4.86
SCOP	4.69
η [%]	187.40
Label	A+++
Qh [ kWh ]	40493.60
Pdesignh [ kW ]	19.6
Tbivalent [ °C ]	-7.00

Average Climate / Medium Temperature [55°C]

Operating conditions		Qh	P	COP
1	A7 / W47-55	24.4	8.6	2.84
2	A2 / W55	21.4	8.6	2.49
3	A-22 / W55	14.0	7.9	1.64
A	A-7 / W52	18.1	7.9	2.29
B	A2 / W42	21.0	6.2	3.41
C	A7 / W36	24.4	5.2	4.65
D	A12 / W30	28.4	4.3	6.64
E	A-10 / W55	17.8	8.5	2.09
F	A-7 / W55	18.3	8.6	2.14

SCOP DATA EN 14825:2018	
<b>Average Climate / Medium Temperature [55°C]</b>	
SCOPon	3.60
SCOPnet	3.63
SCOP	3.53
η [%]	141.34
Label	A++
Qh [ kWh ]	42766.20
Pdesignh [ kW ]	20.7
Tbivalent [ °C ]	-7.00

Cooling performance data

Low temperature cooling W 12 / 7°C

Operating conditions		Qc	P	EER
A	A35 / W12-7	17.1	6.3	2.71
B	A30 / W12-7	17.7	5.6	3.19
C	A25 / W12-7	18.3	4.9	3.75
D	A20 / W12-7	18.8	4.3	4.40

SEER DATA EN 14825:2018 [ W 12 / 7°C ]	
SEERon	3.64
SEER	3.51
Qc [ kWh ]	10260.00
η [%]	140.20

Radiant cooling W 23 / 18°C

Operating conditions		Qc	P	EER
A	A35 / W23-18	23.0	6.3	3.65
B	A30 / W23-18	23.9	5.0	4.30
C	A25 / W23-18	24.7	4.3	5.05
D	A20 / W23-18	25.3	3.7	5.92

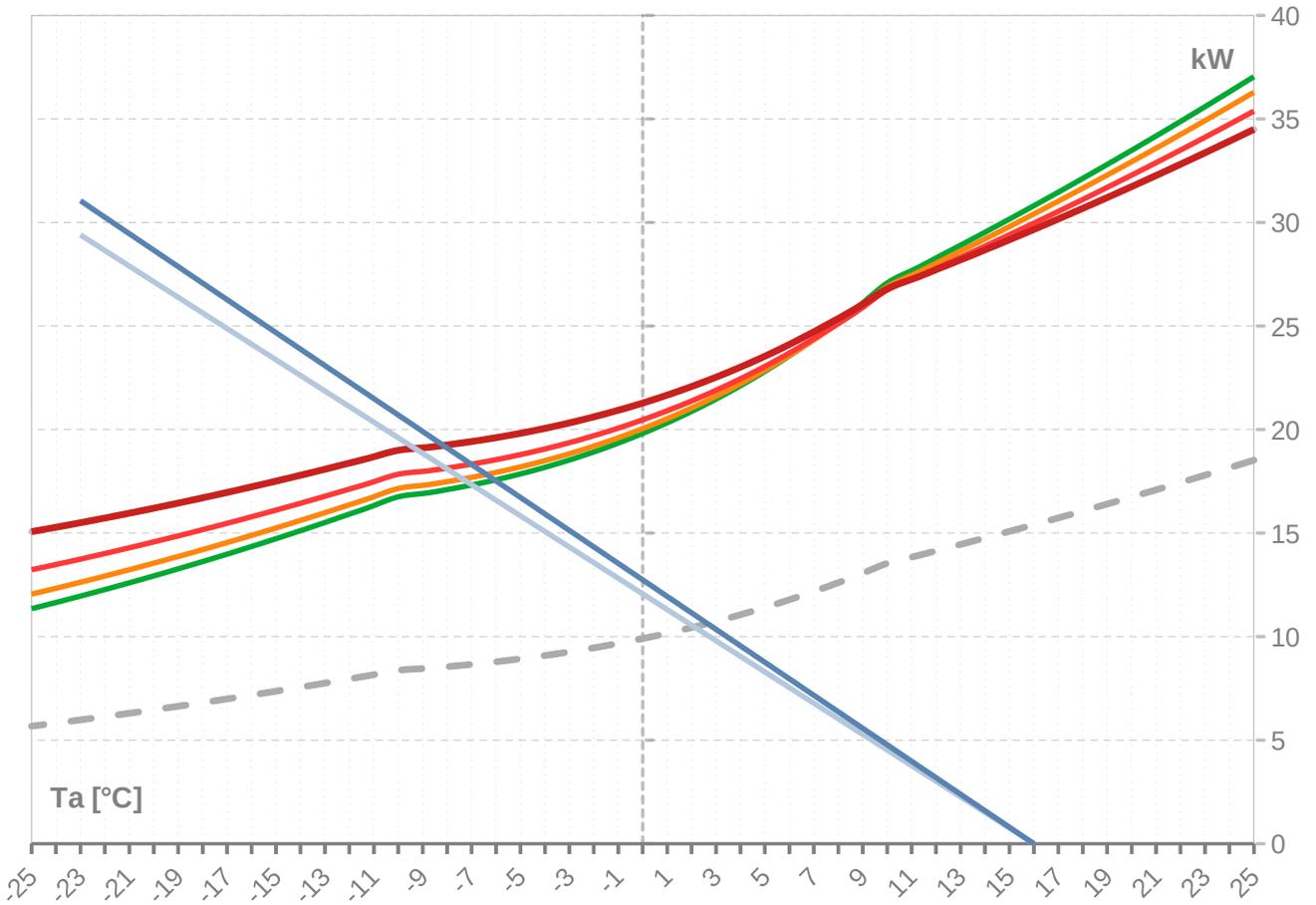
SEER DATA EN 14825:2018 [ W 23 / 18°C ]	
SEERon	4.90
SEER	4.66
Qc [ kWh ]	10260.00
η [%]	186.33

# WAMAK AiWa 23 EVI H-Twin In

ZHI11K1P-TFM\_R410A\_2\_AW

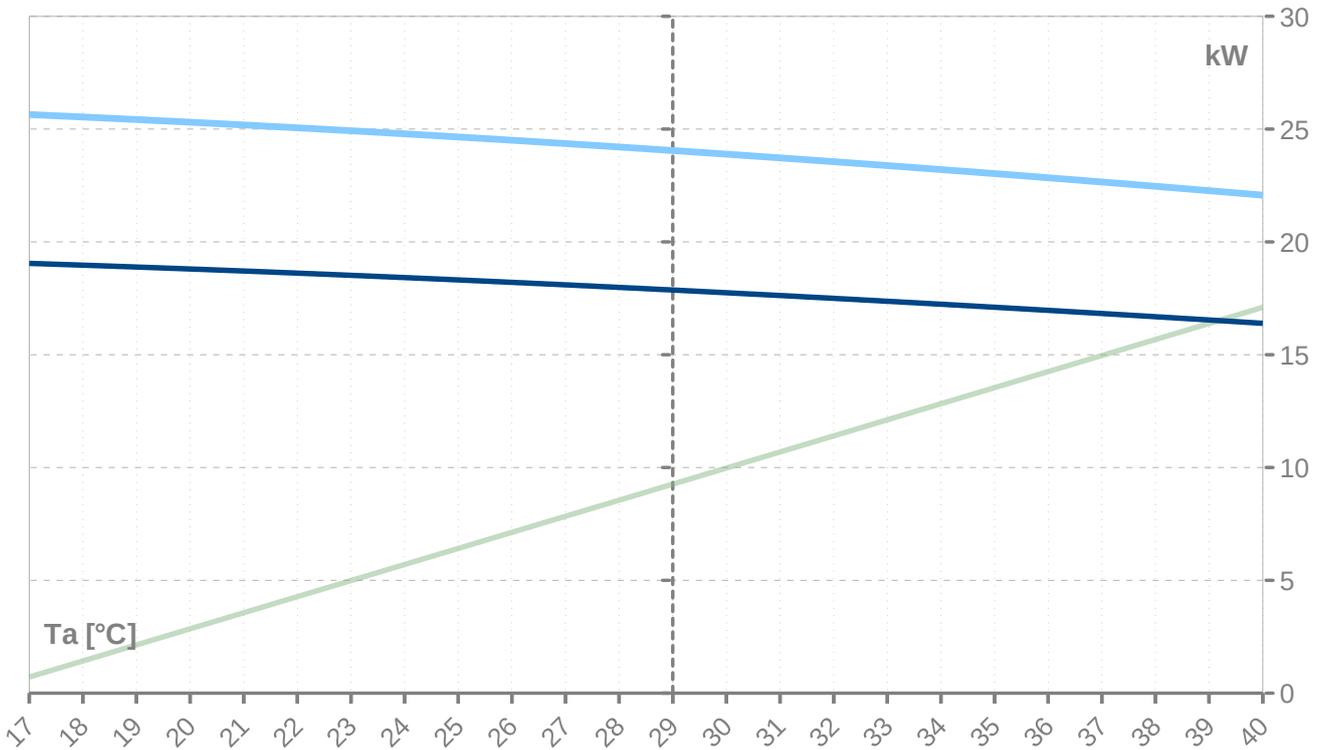
## Performance lines - heating

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



## Performance lines - cooling

- Pratedc   
 — Qc-12/7   
 — Qc-23/18



Th [°C]		35 °C								
Ta [°C]	Qh nom [kW]	Qh min [kW]	Qh max [kW]	Pin nom [kW]	Pin-min [kW]	Pin-max [kW]	COP kW / kW	I nom [A]	I min [A]	I max [A]
25	<b>31.5</b>	15.7		<b>4.8</b>	2.3		<b>6.58</b>	8.3	4.1	
24	<b>31.5</b>	15.7		<b>4.8</b>	2.3		<b>6.58</b>	8.3	4.1	
23	<b>31.5</b>	15.7		<b>4.8</b>	2.3		<b>6.58</b>	8.3	4.1	
22	<b>31.5</b>	15.7		<b>4.8</b>	2.3		<b>6.58</b>	8.3	4.1	
21	<b>31.5</b>	15.7		<b>4.8</b>	2.3		<b>6.58</b>	8.3	4.1	
20	<b>31.5</b>	15.7		<b>4.8</b>	2.3		<b>6.58</b>	8.3	4.1	
19	<b>31.5</b>	15.7		<b>4.8</b>	2.3		<b>6.58</b>	8.3	4.1	
18	<b>31.5</b>	15.7		<b>4.8</b>	2.3		<b>6.58</b>	8.3	4.1	
17	<b>31.5</b>	15.7		<b>4.8</b>	2.3		<b>6.58</b>	8.3	4.1	
16	<b>30.8</b>	15.4	30.8	<b>4.8</b>	2.3	4.8	<b>6.39</b>	8.3	4.2	8.3
15	<b>30.2</b>	15.1	30.2	<b>4.9</b>	2.3	4.9	<b>6.20</b>	8.4	4.2	8.4
14	<b>29.5</b>	14.8	29.5	<b>4.9</b>	2.4	4.9	<b>6.03</b>	8.4	4.2	8.4
13	<b>28.9</b>	14.5	28.9	<b>4.9</b>	2.4	4.9	<b>5.86</b>	8.5	4.2	8.5
12	<b>28.3</b>	14.1	28.3	<b>5.0</b>	2.4	5.0	<b>5.70</b>	8.5	4.2	8.5
11	<b>27.7</b>	13.8	27.7	<b>5.0</b>	2.4	5.0	<b>5.55</b>	8.5	4.3	8.5
10	<b>27.1</b>	13.5	27.1	<b>5.0</b>	2.4	5.0	<b>5.40</b>	8.6	4.3	8.6
9	<b>26.1</b>	13.1	26.1	<b>5.1</b>	2.4	5.1	<b>5.17</b>	8.6	4.3	8.6
8	<b>25.2</b>	12.6	25.2	<b>5.1</b>	2.4	5.1	<b>4.96</b>	8.6	4.3	8.6
7	<b>24.4</b>	12.2	24.4	<b>5.1</b>	2.5	5.1	<b>4.77</b>	8.7	4.3	8.7
6	<b>23.6</b>	11.8	23.6	<b>5.1</b>	2.5	5.1	<b>4.60</b>	8.7	4.3	8.7
5	<b>22.8</b>	11.4	22.8	<b>5.1</b>	2.5	5.1	<b>4.44</b>	8.7	4.3	8.7
4	<b>22.1</b>	11.1	22.1	<b>5.2</b>	2.5	5.2	<b>4.29</b>	8.7	4.4	8.7
3	<b>21.5</b>	10.7	21.5	<b>5.2</b>	2.5	5.2	<b>4.16</b>	8.7	4.4	8.7
2	<b>20.9</b>	10.4	20.9	<b>5.2</b>	2.5	5.2	<b>4.04</b>	8.7	4.4	8.7
1	<b>20.3</b>	10.2	20.3	<b>5.2</b>	2.5	5.2	<b>3.93</b>	8.7	4.4	8.7
0	<b>19.8</b>	9.9	19.8	<b>5.2</b>	2.5	5.2	<b>3.83</b>	8.7	4.4	8.7
-1	<b>19.3</b>	9.7	19.3	<b>5.2</b>	2.5	5.2	<b>3.74</b>	8.7	4.4	8.7
-2	<b>18.9</b>	9.5	18.9	<b>5.2</b>	2.5	5.2	<b>3.66</b>	8.7	4.4	8.7
-3	<b>18.5</b>	9.3	18.5	<b>5.2</b>	2.5	5.2	<b>3.58</b>	8.7	4.4	8.7
-4	<b>18.2</b>	9.1	18.2	<b>5.2</b>	2.5	5.2	<b>3.52</b>	8.7	4.4	8.7
-5	<b>17.9</b>	8.9	17.9	<b>5.2</b>	2.5	5.2	<b>3.46</b>	8.7	4.4	8.7
-6	<b>17.6</b>	8.8	17.6	<b>5.2</b>	2.5	5.2	<b>3.40</b>	8.7	4.4	8.7
-7	<b>17.3</b>	8.7	17.3	<b>5.2</b>	2.5	5.2	<b>3.35</b>	8.7	4.4	8.7
-8	<b>17.1</b>	8.5	17.1	<b>5.2</b>	2.5	5.2	<b>3.31</b>	8.7	4.4	8.7
-9	<b>16.9</b>	8.5	16.9	<b>5.2</b>	2.5	5.2	<b>3.28</b>	8.7	4.4	8.7
-10	<b>16.7</b>	8.4	16.7	<b>5.2</b>	2.5	5.2	<b>3.25</b>	8.7	4.4	8.7
-11	<b>16.3</b>	8.2	16.3	<b>5.2</b>	2.5	5.2	<b>3.17</b>	8.7	4.4	8.7
-12	<b>15.9</b>	8.0	15.9	<b>5.1</b>	2.5	5.1	<b>3.09</b>	8.7	4.4	8.7
-13	<b>15.5</b>	7.8	15.5	<b>5.1</b>	2.5	5.1	<b>3.02</b>	8.7	4.3	8.7
-14	<b>15.1</b>	7.6	15.1	<b>5.1</b>	2.5	5.1	<b>2.94</b>	8.7	4.3	8.7
-15	<b>14.7</b>	7.4	14.7	<b>5.1</b>	2.5	5.1	<b>2.87</b>	8.7	4.3	8.7
-16	<b>14.4</b>	7.2	14.4	<b>5.1</b>	2.5	5.1	<b>2.80</b>	8.7	4.3	8.7
-17	<b>14.0</b>	7.0	14.0	<b>5.1</b>	2.5	5.1	<b>2.74</b>	8.7	4.3	8.7
-18	<b>13.6</b>	6.8	13.6	<b>5.1</b>	2.5	5.1	<b>2.67</b>	8.7	4.3	8.7
-19	<b>13.3</b>	6.6	13.3	<b>5.1</b>	2.5	5.1	<b>2.60</b>	8.7	4.3	8.7
-20	<b>12.9</b>	6.5	12.9	<b>5.1</b>	2.5	5.1	<b>2.54</b>	8.7	4.3	8.7
-21	<b>12.6</b>	6.3	12.6	<b>5.1</b>	2.5	5.1	<b>2.48</b>	8.6	4.3	8.6
-22	<b>12.3</b>	6.1	12.3	<b>5.1</b>	2.4	5.1	<b>2.42</b>	8.6	4.3	8.6
-23	<b>12.0</b>	6.0	12.0	<b>5.1</b>	2.4	5.1	<b>2.36</b>	8.6	4.3	8.6
-24	<b>11.6</b>	5.8	11.6	<b>5.1</b>	2.4	5.1	<b>2.30</b>	8.6	4.3	8.6
-25	<b>11.3</b>	5.7	11.3	<b>5.1</b>	2.4	5.1	<b>2.24</b>	8.6	4.3	8.6

\* attention: operating limits not reflected in performance table

**WAMAK AiWa 23 EVI H-Twin In**

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>36.3</b>	18.1	36.3	<b>6.1</b>	2.9	6.1	<b>5.93</b>	9.8	4.9	9.8
24	<b>35.6</b>	17.8	35.6	<b>6.2</b>	3.0	6.2	<b>5.77</b>	9.9	4.9	9.9
23	<b>34.9</b>	17.5	34.9	<b>6.2</b>	3.0	6.2	<b>5.62</b>	9.9	5.0	9.9
22	<b>34.2</b>	17.1	34.2	<b>6.3</b>	3.0	6.3	<b>5.48</b>	10.0	5.0	10.0
21	<b>33.6</b>	16.8	33.6	<b>6.3</b>	3.0	6.3	<b>5.33</b>	10.0	5.0	10.0
20	<b>32.9</b>	16.5	32.9	<b>6.3</b>	3.1	6.3	<b>5.20</b>	10.1	5.0	10.1
19	<b>32.3</b>	16.1	32.3	<b>6.4</b>	3.1	6.4	<b>5.07</b>	10.1	5.1	10.1
18	<b>31.7</b>	15.8	31.7	<b>6.4</b>	3.1	6.4	<b>4.94</b>	10.2	5.1	10.2
17	<b>31.0</b>	15.5	31.0	<b>6.4</b>	3.1	6.4	<b>4.82</b>	10.2	5.1	10.2
16	<b>30.4</b>	15.2	30.4	<b>6.5</b>	3.1	6.5	<b>4.71</b>	10.2	5.1	10.2
15	<b>29.8</b>	14.9	29.8	<b>6.5</b>	3.1	6.5	<b>4.60</b>	10.3	5.1	10.3
14	<b>29.2</b>	14.6	29.2	<b>6.5</b>	3.1	6.5	<b>4.49</b>	10.3	5.1	10.3
13	<b>28.6</b>	14.3	28.6	<b>6.5</b>	3.1	6.5	<b>4.38</b>	10.3	5.2	10.3
12	<b>28.0</b>	14.0	28.0	<b>6.5</b>	3.2	6.5	<b>4.28</b>	10.3	5.2	10.3
11	<b>27.5</b>	13.7	27.5	<b>6.6</b>	3.2	6.6	<b>4.18</b>	10.4	5.2	10.4
10	<b>26.9</b>	13.4	26.9	<b>6.6</b>	3.2	6.6	<b>4.09</b>	10.4	5.2	10.4
9	<b>26.0</b>	13.0	26.0	<b>6.6</b>	3.2	6.6	<b>3.93</b>	10.4	5.2	10.4
8	<b>25.1</b>	12.6	25.1	<b>6.6</b>	3.2	6.6	<b>3.80</b>	10.4	5.2	10.4
7	<b>24.3</b>	12.2	24.3	<b>6.6</b>	3.2	6.6	<b>3.67</b>	10.4	5.2	10.4
6	<b>23.6</b>	11.8	23.6	<b>6.6</b>	3.2	6.6	<b>3.55</b>	10.5	5.2	10.5
5	<b>22.9</b>	11.4	22.9	<b>6.6</b>	3.2	6.6	<b>3.44</b>	10.5	5.2	10.5
4	<b>22.2</b>	11.1	22.2	<b>6.6</b>	3.2	6.6	<b>3.34</b>	10.5	5.2	10.5
3	<b>21.6</b>	10.8	21.6	<b>6.6</b>	3.2	6.6	<b>3.25</b>	10.5	5.2	10.5
2	<b>21.0</b>	10.5	21.0	<b>6.6</b>	3.2	6.6	<b>3.17</b>	10.5	5.2	10.5
1	<b>20.5</b>	10.3	20.5	<b>6.6</b>	3.2	6.6	<b>3.09</b>	10.5	5.2	10.5
0	<b>20.0</b>	10.0	20.0	<b>6.6</b>	3.2	6.6	<b>3.02</b>	10.5	5.2	10.5
-1	<b>19.6</b>	9.8	19.6	<b>6.6</b>	3.2	6.6	<b>2.95</b>	10.5	5.2	10.5
-2	<b>19.2</b>	9.6	19.2	<b>6.6</b>	3.2	6.6	<b>2.89</b>	10.5	5.2	10.5
-3	<b>18.8</b>	9.4	18.8	<b>6.6</b>	3.2	6.6	<b>2.84</b>	10.5	5.2	10.5
-4	<b>18.5</b>	9.2	18.5	<b>6.6</b>	3.2	6.6	<b>2.79</b>	10.4	5.2	10.4
-5	<b>18.2</b>	9.1	18.2	<b>6.6</b>	3.2	6.6	<b>2.75</b>	10.4	5.2	10.4
-6	<b>17.9</b>	9.0	17.9	<b>6.6</b>	3.2	6.6	<b>2.71</b>	10.4	5.2	10.4
-7	<b>17.7</b>	8.8	17.7	<b>6.6</b>	3.2	6.6	<b>2.67</b>	10.4	5.2	10.4
-8	<b>17.5</b>	8.7	17.5	<b>6.6</b>	3.2	6.6	<b>2.64</b>	10.4	5.2	10.4
-9	<b>17.3</b>	8.7	17.3	<b>6.6</b>	3.2	6.6	<b>2.62</b>	10.4	5.2	10.4
-10	<b>17.2</b>	8.6	17.2	<b>6.6</b>	3.2	6.6	<b>2.60</b>	10.4	5.2	10.4
-11	<b>16.8</b>	8.4	16.8	<b>6.6</b>	3.2	6.6	<b>2.54</b>	10.4	5.2	10.4
-12	<b>16.4</b>	8.2	16.4	<b>6.6</b>	3.2	6.6	<b>2.48</b>	10.4	5.2	10.4
-13	<b>16.0</b>	8.0	16.0	<b>6.6</b>	3.2	6.6	<b>2.42</b>	10.4	5.2	10.4
-14	<b>15.6</b>	7.8	15.6	<b>6.6</b>	3.2	6.6	<b>2.37</b>	10.4	5.2	10.4
-15	<b>15.2</b>	7.6	15.2	<b>6.6</b>	3.2	6.6	<b>2.32</b>	10.4	5.2	10.4
-16	<b>14.9</b>	7.4	14.9	<b>6.6</b>	3.2	6.6	<b>2.26</b>	10.4	5.2	10.4
-17	<b>14.5</b>	7.3	14.5	<b>6.6</b>	3.2	6.6	<b>2.21</b>	10.4	5.2	10.4
-18	<b>14.2</b>	7.1	14.2	<b>6.6</b>	3.2	6.6	<b>2.16</b>	10.4	5.2	10.4
-19	<b>13.9</b>	6.9	13.9	<b>6.6</b>	3.2	6.6	<b>2.11</b>	10.4	5.2	10.4
-20	<b>13.5</b>	6.8	13.5	<b>6.6</b>	3.2	6.6	<b>2.07</b>	10.4	5.2	10.4
-21	<b>13.2</b>	6.6	13.2	<b>6.6</b>	3.2	6.6	<b>2.02</b>	10.4	5.2	10.4
-22	<b>12.9</b>	6.5	12.9	<b>6.6</b>	3.2	6.6	<b>1.97</b>	10.4	5.2	10.4
-23	<b>12.6</b>	6.3	12.6	<b>6.6</b>	3.2	6.6	<b>1.93</b>	10.4	5.2	10.4
-24	<b>12.3</b>	6.2	12.3	<b>6.6</b>	3.2	6.6	<b>1.88</b>	10.4	5.2	10.4
-25	<b>12.1</b>	6.0	12.1	<b>6.6</b>	3.2	6.6	<b>1.84</b>	10.4	5.2	10.4

\* attention: operating limits not reflected in performance table

**WAMAK AiWa 23 EVI H-Twin In**

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>35.4</b>	17.7	35.4	<b>8.2</b>	4.0	8.2	<b>4.29</b>	12.5	6.2	12.5
24	<b>34.7</b>	17.4	34.7	<b>8.3</b>	4.0	8.3	<b>4.20</b>	12.5	6.2	12.5
23	<b>34.1</b>	17.1	34.1	<b>8.3</b>	4.0	8.3	<b>4.11</b>	12.5	6.3	12.5
22	<b>33.5</b>	16.7	33.5	<b>8.3</b>	4.0	8.3	<b>4.02</b>	12.6	6.3	12.6
21	<b>32.9</b>	16.4	32.9	<b>8.4</b>	4.0	8.4	<b>3.93</b>	12.6	6.3	12.6
20	<b>32.3</b>	16.1	32.3	<b>8.4</b>	4.0	8.4	<b>3.85</b>	12.7	6.3	12.7
19	<b>31.7</b>	15.8	31.7	<b>8.4</b>	4.1	8.4	<b>3.76</b>	12.7	6.3	12.7
18	<b>31.1</b>	15.6	31.1	<b>8.4</b>	4.1	8.4	<b>3.68</b>	12.7	6.4	12.7
17	<b>30.5</b>	15.3	30.5	<b>8.5</b>	4.1	8.5	<b>3.61</b>	12.7	6.4	12.7
16	<b>30.0</b>	15.0	30.0	<b>8.5</b>	4.1	8.5	<b>3.53</b>	12.8	6.4	12.8
15	<b>29.4</b>	14.7	29.4	<b>8.5</b>	4.1	8.5	<b>3.46</b>	12.8	6.4	12.8
14	<b>28.9</b>	14.4	28.9	<b>8.5</b>	4.1	8.5	<b>3.39</b>	12.8	6.4	12.8
13	<b>28.3</b>	14.2	28.3	<b>8.5</b>	4.1	8.5	<b>3.32</b>	12.8	6.4	12.8
12	<b>27.8</b>	13.9	27.8	<b>8.5</b>	4.1	8.5	<b>3.25</b>	12.8	6.4	12.8
11	<b>27.3</b>	13.6	27.3	<b>8.5</b>	4.1	8.5	<b>3.19</b>	12.9	6.4	12.9
10	<b>26.7</b>	13.4	26.7	<b>8.6</b>	4.1	8.6	<b>3.12</b>	12.9	6.4	12.9
9	<b>25.9</b>	12.9	25.9	<b>8.6</b>	4.1	8.6	<b>3.02</b>	12.9	6.4	12.9
8	<b>25.1</b>	12.6	25.1	<b>8.6</b>	4.1	8.6	<b>2.93</b>	12.9	6.4	12.9
7	<b>24.4</b>	12.2	24.4	<b>8.6</b>	4.1	8.6	<b>2.84</b>	12.9	6.5	12.9
6	<b>23.7</b>	11.8	23.7	<b>8.6</b>	4.1	8.6	<b>2.76</b>	12.9	6.5	12.9
5	<b>23.1</b>	11.5	23.1	<b>8.6</b>	4.1	8.6	<b>2.69</b>	12.9	6.5	12.9
4	<b>22.5</b>	11.2	22.5	<b>8.6</b>	4.1	8.6	<b>2.62</b>	12.9	6.5	12.9
3	<b>21.9</b>	10.9	21.9	<b>8.6</b>	4.1	8.6	<b>2.55</b>	12.9	6.5	12.9
2	<b>21.4</b>	10.7	21.4	<b>8.6</b>	4.1	8.6	<b>2.49</b>	12.9	6.5	12.9
1	<b>20.9</b>	10.5	20.9	<b>8.6</b>	4.1	8.6	<b>2.44</b>	12.9	6.4	12.9
0	<b>20.5</b>	10.2	20.5	<b>8.6</b>	4.1	8.6	<b>2.39</b>	12.9	6.4	12.9
-1	<b>20.1</b>	10.0	20.1	<b>8.6</b>	4.1	8.6	<b>2.34</b>	12.9	6.4	12.9
-2	<b>19.7</b>	9.8	19.7	<b>8.6</b>	4.1	8.6	<b>2.30</b>	12.9	6.4	12.9
-3	<b>19.4</b>	9.7	19.4	<b>8.6</b>	4.1	8.6	<b>2.26</b>	12.9	6.4	12.9
-4	<b>19.1</b>	9.5	19.1	<b>8.6</b>	4.1	8.6	<b>2.23</b>	12.9	6.4	12.9
-5	<b>18.8</b>	9.4	18.8	<b>8.6</b>	4.1	8.6	<b>2.20</b>	12.9	6.4	12.9
-6	<b>18.5</b>	9.3	18.5	<b>8.6</b>	4.1	8.6	<b>2.17</b>	12.9	6.4	12.9
-7	<b>18.3</b>	9.2	18.3	<b>8.6</b>	4.1	8.6	<b>2.14</b>	12.9	6.4	12.9
-8	<b>18.1</b>	9.1	18.1	<b>8.5</b>	4.1	8.5	<b>2.12</b>	12.9	6.4	12.9
-9	<b>18.0</b>	9.0	18.0	<b>8.5</b>	4.1	8.5	<b>2.10</b>	12.9	6.4	12.9
-10	<b>17.8</b>	8.9	17.8	<b>8.5</b>	4.1	8.5	<b>2.09</b>	12.9	6.4	12.9
-11	<b>17.5</b>	8.7	17.5	<b>8.5</b>	4.1	8.5	<b>2.05</b>	12.9	6.4	12.9
-12	<b>17.1</b>	8.6	17.1	<b>8.5</b>	4.1	8.5	<b>2.00</b>	12.8	6.4	12.8
-13	<b>16.8</b>	8.4	16.8	<b>8.5</b>	4.1	8.5	<b>1.96</b>	12.8	6.4	12.8
-14	<b>16.4</b>	8.2	16.4	<b>8.5</b>	4.1	8.5	<b>1.93</b>	12.8	6.4	12.8
-15	<b>16.1</b>	8.1	16.1	<b>8.5</b>	4.1	8.5	<b>1.89</b>	12.8	6.4	12.8
-16	<b>15.8</b>	7.9	15.8	<b>8.5</b>	4.1	8.5	<b>1.85</b>	12.8	6.4	12.8
-17	<b>15.5</b>	7.7	15.5	<b>8.5</b>	4.1	8.5	<b>1.81</b>	12.8	6.4	12.8
-18	<b>15.2</b>	7.6	15.2	<b>8.5</b>	4.1	8.5	<b>1.78</b>	12.8	6.4	12.8
-19	<b>14.9</b>	7.4	14.9	<b>8.5</b>	4.1	8.5	<b>1.74</b>	12.8	6.4	12.8
-20	<b>14.6</b>	7.3	14.6	<b>8.5</b>	4.1	8.5	<b>1.71</b>	12.8	6.4	12.8
-21	<b>14.3</b>	7.1	14.3	<b>8.6</b>	4.1	8.6	<b>1.67</b>	12.8	6.4	12.8
-22	<b>14.0</b>	7.0	14.0	<b>8.6</b>	4.1	8.6	<b>1.64</b>	12.8	6.4	12.8
-23	<b>13.7</b>	6.9	13.7	<b>8.6</b>	4.1	8.6	<b>1.60</b>	12.8	6.4	12.8
-24	<b>13.5</b>	6.7	13.5	<b>8.6</b>	4.1	8.6	<b>1.57</b>	12.8	6.4	12.8
-25	<b>13.2</b>	6.6	13.2	<b>8.6</b>	4.1	8.6	<b>1.54</b>	12.9	6.4	12.9

\* attention: operating limits not reflected in performance table

**WAMAK AiWa 23 EVI H-Twin In**

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>34.5</b>	17.2	34.5	<b>10.9</b>	5.2	10.9	<b>3.18</b>	15.9	8.0	15.9
24	<b>33.9</b>	17.0	33.9	<b>10.9</b>	5.2	10.9	<b>3.12</b>	16.0	8.0	16.0
23	<b>33.4</b>	16.7	33.4	<b>10.9</b>	5.3	10.9	<b>3.06</b>	16.0	8.0	16.0
22	<b>32.8</b>	16.4	32.8	<b>10.9</b>	5.3	10.9	<b>3.00</b>	16.0	8.0	16.0
21	<b>32.3</b>	16.1	32.3	<b>11.0</b>	5.3	11.0	<b>2.94</b>	16.1	8.0	16.1
20	<b>31.7</b>	15.9	31.7	<b>11.0</b>	5.3	11.0	<b>2.89</b>	16.1	8.0	16.1
19	<b>31.2</b>	15.6	31.2	<b>11.0</b>	5.3	11.0	<b>2.84</b>	16.1	8.1	16.1
18	<b>30.7</b>	15.3	30.7	<b>11.0</b>	5.3	11.0	<b>2.79</b>	16.1	8.1	16.1
17	<b>30.2</b>	15.1	30.2	<b>11.0</b>	5.3	11.0	<b>2.74</b>	16.2	8.1	16.2
16	<b>29.7</b>	14.8	29.7	<b>11.0</b>	5.3	11.0	<b>2.69</b>	16.2	8.1	16.2
15	<b>29.2</b>	14.6	29.2	<b>11.1</b>	5.3	11.1	<b>2.64</b>	16.2	8.1	16.2
14	<b>28.7</b>	14.3	28.7	<b>11.1</b>	5.3	11.1	<b>2.59</b>	16.2	8.1	16.2
13	<b>28.2</b>	14.1	28.2	<b>11.1</b>	5.3	11.1	<b>2.55</b>	16.2	8.1	16.2
12	<b>27.7</b>	13.9	27.7	<b>11.1</b>	5.3	11.1	<b>2.50</b>	16.2	8.1	16.2
11	<b>27.3</b>	13.6	27.3	<b>11.1</b>	5.3	11.1	<b>2.46</b>	16.2	8.1	16.2
10	<b>26.8</b>	13.4	26.8	<b>11.1</b>	5.3	11.1	<b>2.42</b>	16.3	8.1	16.3
9	<b>26.1</b>	13.0	26.1	<b>11.1</b>	5.3	11.1	<b>2.35</b>	16.3	8.1	16.3
8	<b>25.4</b>	12.7	25.4	<b>11.1</b>	5.3	11.1	<b>2.28</b>	16.3	8.1	16.3
7	<b>24.7</b>	12.4	24.7	<b>11.1</b>	5.4	11.1	<b>2.23</b>	16.3	8.1	16.3
6	<b>24.1</b>	12.1	24.1	<b>11.1</b>	5.4	11.1	<b>2.17</b>	16.3	8.1	16.3
5	<b>23.5</b>	11.8	23.5	<b>11.1</b>	5.4	11.1	<b>2.12</b>	16.3	8.1	16.3
4	<b>23.0</b>	11.5	23.0	<b>11.1</b>	5.4	11.1	<b>2.07</b>	16.3	8.1	16.3
3	<b>22.5</b>	11.3	22.5	<b>11.1</b>	5.4	11.1	<b>2.03</b>	16.3	8.1	16.3
2	<b>22.1</b>	11.0	22.1	<b>11.1</b>	5.4	11.1	<b>1.99</b>	16.3	8.1	16.3
1	<b>21.7</b>	10.8	21.7	<b>11.1</b>	5.4	11.1	<b>1.95</b>	16.3	8.1	16.3
0	<b>21.3</b>	10.6	21.3	<b>11.1</b>	5.4	11.1	<b>1.92</b>	16.3	8.1	16.3
-1	<b>20.9</b>	10.5	20.9	<b>11.1</b>	5.4	11.1	<b>1.88</b>	16.3	8.1	16.3
-2	<b>20.6</b>	10.3	20.6	<b>11.1</b>	5.4	11.1	<b>1.86</b>	16.3	8.1	16.3
-3	<b>20.3</b>	10.2	20.3	<b>11.1</b>	5.4	11.1	<b>1.83</b>	16.3	8.1	16.3
-4	<b>20.1</b>	10.0	20.1	<b>11.1</b>	5.4	11.1	<b>1.81</b>	16.3	8.1	16.3
-5	<b>19.8</b>	9.9	19.8	<b>11.1</b>	5.4	11.1	<b>1.78</b>	16.3	8.1	16.3
-6	<b>19.6</b>	9.8	19.6	<b>11.1</b>	5.4	11.1	<b>1.76</b>	16.3	8.1	16.3
-7	<b>19.4</b>	9.7	19.4	<b>11.1</b>	5.4	11.1	<b>1.75</b>	16.3	8.1	16.3
-8	<b>19.3</b>	9.6	19.3	<b>11.1</b>	5.4	11.1	<b>1.73</b>	16.3	8.1	16.3
-9	<b>19.1</b>	9.6	19.1	<b>11.1</b>	5.4	11.1	<b>1.72</b>	16.3	8.1	16.3
-10	<b>19.0</b>	9.5	19.0	<b>11.1</b>	5.4	11.1	<b>1.71</b>	16.3	8.1	16.3
-11	<b>18.7</b>	9.3	18.7	<b>11.1</b>	5.4	11.1	<b>1.68</b>	16.3	8.1	16.3
-12	<b>18.4</b>	9.2	18.4	<b>11.1</b>	5.4	11.1	<b>1.65</b>	16.3	8.1	16.3
-13	<b>18.1</b>	9.0	18.1	<b>11.1</b>	5.4	11.1	<b>1.62</b>	16.3	8.1	16.3
-14	<b>17.8</b>	8.9	17.8	<b>11.1</b>	5.4	11.1	<b>1.60</b>	16.3	8.1	16.3
-15	<b>17.5</b>	8.8	17.5	<b>11.1</b>	5.4	11.1	<b>1.57</b>	16.3	8.1	16.3
-16										
-17										
-18										
-19										
-20										
-21										
-22										
-23										
-24										
-25										

\* attention: operating limits not reflected in performance table

**WAMAK AiWa 23 EVI H-Twin In**

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>16.4</b>	16.4	16.4	<b>7.2</b>	6.9	7.2	<b>2.29</b>	11.1	11.1	11.1
39	<b>16.5</b>	16.5	16.5	<b>7.0</b>	6.7	7.0	<b>2.37</b>	10.9	10.9	10.9
38	<b>16.7</b>	16.7	16.7	<b>6.8</b>	6.6	6.8	<b>2.45</b>	10.7	10.7	10.7
37	<b>16.8</b>	16.8	16.8	<b>6.6</b>	6.4	6.6	<b>2.53</b>	10.5	10.5	10.5
36	<b>17.0</b>	17.0	17.0	<b>6.5</b>	6.2	6.5	<b>2.62</b>	10.3	10.3	10.3
35	<b>17.1</b>	17.1	17.1	<b>6.3</b>	6.1	6.3	<b>2.71</b>	10.1	10.1	10.1
34	<b>17.2</b>	17.2	17.2	<b>6.2</b>	5.9	6.2	<b>2.80</b>	9.9	9.9	9.9
33	<b>17.4</b>	17.4	17.4	<b>6.0</b>	5.8	6.0	<b>2.90</b>	9.7	9.7	9.7
32	<b>17.5</b>	17.5	17.5	<b>5.8</b>	5.6	5.8	<b>2.99</b>	9.5	9.5	9.5
31	<b>17.6</b>	17.6	17.6	<b>5.7</b>	5.5	5.7	<b>3.09</b>	9.3	9.3	9.3
30	<b>17.7</b>	17.7	17.7	<b>5.6</b>	5.4	5.6	<b>3.19</b>	9.2	9.2	9.2
29	<b>17.9</b>	17.9	17.9	<b>5.4</b>	5.2	5.4	<b>3.30</b>	9.0	9.0	9.0
28	<b>18.0</b>	18.0	18.0	<b>5.3</b>	5.1	5.3	<b>3.41</b>	8.9	8.9	8.9
27	<b>18.1</b>	18.1	18.1	<b>5.1</b>	5.0	5.1	<b>3.52</b>	8.7	8.7	8.7
26	<b>18.2</b>	18.2	18.2	<b>5.0</b>	4.8	5.0	<b>3.63</b>	8.5	8.5	8.5
25	<b>18.3</b>	18.3	18.3	<b>4.9</b>	4.7	4.9	<b>3.75</b>	8.4	8.4	8.4
24	<b>18.4</b>	18.4	18.4	<b>4.8</b>	4.6	4.8	<b>3.87</b>	8.3	8.3	8.3
23	<b>18.5</b>	18.5	18.5	<b>4.6</b>	4.5	4.6	<b>4.00</b>	8.1	8.1	8.1
22	<b>18.6</b>	18.6	18.6	<b>4.5</b>	4.3	4.5	<b>4.13</b>	8.0	8.0	8.0
21	<b>18.7</b>	18.7	18.7	<b>4.4</b>	4.2	4.4	<b>4.26</b>	7.9	7.9	7.9
20	<b>18.8</b>	18.8	18.8	<b>4.3</b>	4.1	4.3	<b>4.40</b>	7.7	7.7	7.7
19	<b>18.9</b>	18.9	18.9	<b>4.2</b>	4.0	4.2	<b>4.54</b>	7.6	7.6	7.6
18	<b>19.0</b>	19.0	19.0	<b>4.0</b>	3.9	4.0	<b>4.69</b>	7.5	7.5	7.5
17	<b>19.0</b>	19.0	19.0	<b>3.9</b>	3.8	3.9	<b>4.84</b>	7.4	7.4	7.4

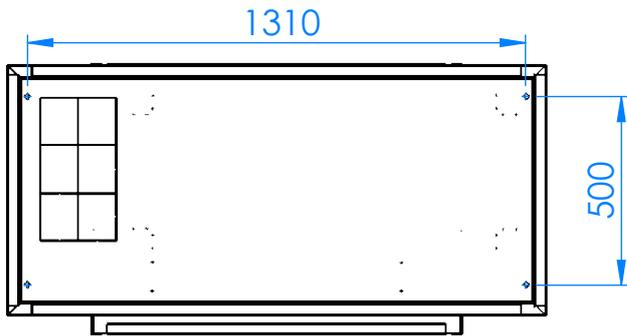
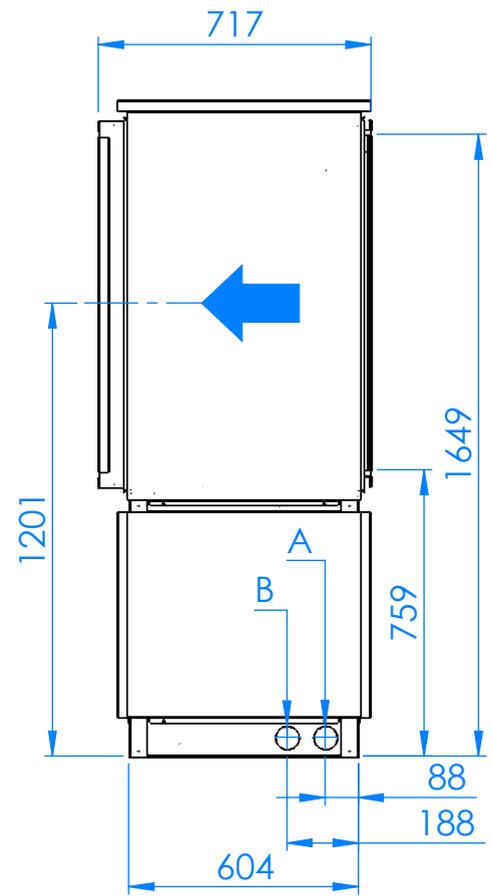
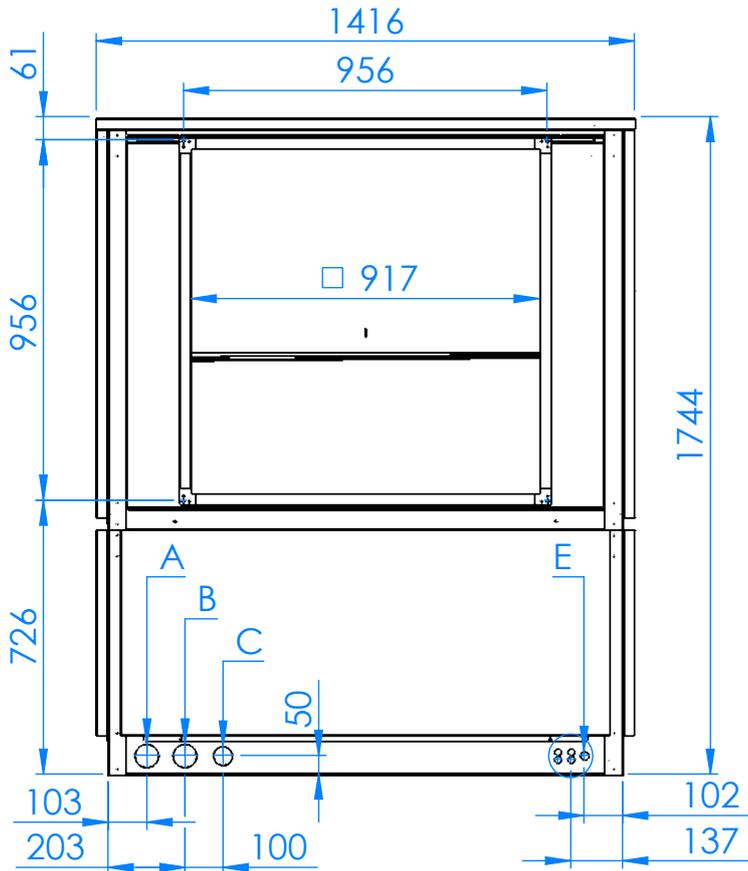
Tc [°C]		W 23 / 18 °C								
Ta [°C]	Qc [kW]	Qh-min [kW]	Qh-max [kW]	Pin [kW]	Pin-min [kW]	Pin-max [kW]	EER kW / kW	I [A]	I-min [A]	I-max [A]
40	<b>22.1</b>	22.1	22.1	<b>7.2</b>	6.9	7.2	<b>3.08</b>	11.0	11.0	11.0
39	<b>22.3</b>	22.3	22.3	<b>7.0</b>	6.7	7.0	<b>3.19</b>	10.8	10.8	10.8
38	<b>22.5</b>	22.5	22.5	<b>6.8</b>	6.6	6.8	<b>3.30</b>	10.5	10.5	10.5
37	<b>22.7</b>	22.7	22.7	<b>6.6</b>	6.4	6.6	<b>3.41</b>	10.3	10.3	10.3
36	<b>22.8</b>	22.8	22.8	<b>6.5</b>	6.2	6.5	<b>3.53</b>	10.1	10.1	10.1
35	<b>23.0</b>	23.0	23.0	<b>6.3</b>	6.1	6.3	<b>3.65</b>	9.9	9.9	9.9
34	<b>23.2</b>	23.2	23.2	<b>6.2</b>	5.9	6.2	<b>3.77</b>	9.7	9.7	9.7
33	<b>23.4</b>	23.4	23.4	<b>6.0</b>	5.8	6.0	<b>3.90</b>	9.5	9.5	9.5
32	<b>23.6</b>	23.6	23.6	<b>5.8</b>	5.6	5.8	<b>4.03</b>	9.3	9.3	9.3
31	<b>23.7</b>	23.7	23.7	<b>5.7</b>	5.5	5.7	<b>4.16</b>	9.1	9.1	9.1
30	<b>23.9</b>	23.9	23.9	<b>5.6</b>	5.4	5.6	<b>4.30</b>	9.0	9.0	9.0
29	<b>24.0</b>	24.0	24.0	<b>5.4</b>	5.2	5.4	<b>4.44</b>	8.8	8.8	8.8
28	<b>24.2</b>	24.2	24.2	<b>5.3</b>	5.1	5.3	<b>4.59</b>	8.6	8.6	8.6
27	<b>24.4</b>	24.4	24.4	<b>5.1</b>	5.0	5.1	<b>4.74</b>	8.5	8.5	8.5
26	<b>24.5</b>	24.5	24.5	<b>5.0</b>	4.8	5.0	<b>4.89</b>	8.3	8.3	8.3
25	<b>24.7</b>	24.7	24.7	<b>4.9</b>	4.7	4.9	<b>5.05</b>	8.2	8.2	8.2
24	<b>24.8</b>	24.8	24.8	<b>4.8</b>	4.6	4.8	<b>5.21</b>	8.0	8.0	8.0
23	<b>24.9</b>	24.9	24.9	<b>4.6</b>	4.5	4.6	<b>5.38</b>	7.8	7.8	7.8
22	<b>25.1</b>	25.1	25.1	<b>4.5</b>	4.3	4.5	<b>5.55</b>	7.7	7.7	7.7
21	<b>25.2</b>	25.2	25.2	<b>4.4</b>	4.2	4.4	<b>5.73</b>	7.6	7.6	7.6
20	<b>25.3</b>	25.3	25.3	<b>4.3</b>	4.1	4.3	<b>5.92</b>	7.4	7.4	7.4
19	<b>25.4</b>	25.4	25.4	<b>4.2</b>	4.0	4.2	<b>6.11</b>	7.3	7.3	7.3
18	<b>25.5</b>	25.5	25.5	<b>4.0</b>	3.9	4.0	<b>6.31</b>	7.1	7.1	7.1
17	<b>25.6</b>	25.6	25.6	<b>3.9</b>	3.8	3.9	<b>6.52</b>	7.0	7.0	7.0

\* 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 23 EVI H-Twin In



C - condens

E - electro

