

## Aquarea Bi-Bloc

### Aquarea H Generation High Performance Bi-Bloc Single Phase. Heating and Cooling - SDC

TENTATIVE DATA

		Single Phase Heating and Cooling		
		KIT-WC03H3E5	KIT-WC05H3E5	KIT-WC07H3E5
Heating capacity at +7°C (heating water at 35°C)	kW	3,20	5,00	7,00
COP at +7°C (heating water at 35°C)	W/W	5,00	4,63	4,46
Heating capacity at +2°C (heating water at 35°C)	kW	3,20	4,20	6,55
COP at +2°C (heating water at 35°C)	W/W	3,56	3,11	3,34
Heating capacity at -7°C (heating water at 35°C)	kW	3,20	4,20	5,15
COP at -7°C (heating water at 35°C)	W/W	2,69	2,59	2,68
Heating capacity at -15°C (heating water at 35°C)	kW	3,20	4,20	4,60
COP at -15°C (heating water at 35°C)	W/W	1,26	2,40	2,49
Cooling capacity at 35°C (cooling water at 7/12°C)	kW	3,20	4,50	6,00
EER at 35°C (cooling water at 7/12°C)	W/W	3,08	2,69	2,63
Energy Efficiency Class at 35°C / 55°C		A+++ / A++	A+++ / A++	A+++ / A++
System label 35°C / 55°C <sup>1</sup>		A+++ / A++	A+++ / A++	A+++ / A++
<b>Indoor Unit</b>		<b>WH-SDC03H3E5</b>	<b>WH-SDC05H3E5</b>	<b>WH-SDC07H3E5</b>
Sound pressure level	Heating / Cooling	dB(A) 28 / 28	28 / 28	30 / 30
Dimensions / Weight	H x W x D	mm / kg 892 x 500 x 340 / 44	892 x 500 x 340 / 44	892 x 500 x 340 / 44
Water pipe connector		mm 28	28	28
A class Pump	Number of speeds	Variable Speed	Variable Speed	Variable Speed
	Power input (Min / Max)	W 30 / 100	33 / 106	34 / 114
Heating water flow (ΔT=5 K, 35°C)	l/min	9,2	14,3	20,1
Capacity of integrated electric heater	kW	3	3	3
Recommended fuse	A	15 / 30	15 / 30	15 / 30
Recommended cable size, supply 1 & 2	mm <sup>2</sup>	3 x 1,5 / 3 x 1,5	3 x 1,5 / 3 x 1,5	3 x 1,5 / 3 x 1,5
<b>Outdoor Unit</b>		<b>WH-UD03HE5</b>	<b>WH-UD05HE5</b>	<b>WH-UD07HE5</b>
Sound pressure level	Heating / Cooling	dB(A) 47 / 47	48 / 48	50 / 48
Dimensions / Weight	H x W x D	mm / kg 622 x 824 x 298 / 39	622 x 824 x 298 / 39	795 x 900 x 320 / 66
Refrigerant (R410A)		kg 1,20	1,20	1,45
Pipe diameter	Liquid pipe / Gas pipe	Inch (mm) 1/4 (6,35) / 1/2 (12,7)	1/4 (6,35) / 1/2 (12,7)	1/4 (6,35) / 5/8 (15,88)
Pipe length range / Elevation difference (in/out)	m	3 - 15 / 5	3 - 15 / 5	3 - 30 / 20
Pipe length for additional gas / Additional gas amount	m / g/m	10 / 20	10 / 20	10 / 30
Operation range	Outdoor ambient	°C -27 ~ +35	-27 ~ +35	-27 ~ +35
Water outlet	Heating / Cooling	°C 20 - 55 / 5 - 20	20 - 55 / 5 - 20	25 - 55 / 5 - 20



**CZ-TAW1**  
Internet Control App

- A+++ / A++ EP 55°C
- A+++ / A++ EP 35°C
- INVERTER+
- A CLASS WATER PUMP
- 5,00 COP
- DIW
- HEATING MODE
- WATER FILTER
- STOP VALVE
- FLOW SENSOR
- BOILER CONNECTION
- SOLAR KIT
- ADVANCED CONTROL
- INTERNET CONTROL
- BMS CONNECTIVITY
- 5 YEARS WARRANTY

Accessories		Accessories	
WH-TD20E3E5	Tank 200L Inox w/ 3 way valve	CZ-NS4P	Additional functions PCB
WH-TD30E3E5-1	Tank 300L Inox w/ 3 way valve	PAW-BTANK50L	Buffer tank 50L
PAW-TD20B8E3-NDS	Tank 200L Enamelled w/ 3 way valve	CZ-TAW1	Aquarea Smart Cloud, H Generation Internet control through Wifi or wired LAN
CZ-TK1	Temperature sensor for 3rd party tank	PAW-A2W-RTWIRED	Temperature sensor
CZ-NV1	3 way valve Kit		

COP classification is at 230V only in accordance with EU directive 2003/32/EC. Sound pressure measured at 1m from the outdoor unit and at 1.5m height. Performance in agreement with EN14511. Remark to energy efficiency class: These indications are based on the official ErP regulations (EU regulations N° 811/2013, EN 14511 and EN 14823) for heat pumps, which is officially binding from September 2015. Efficiency classes marked with \* would meet the new regulations from September 2017 to a classification as A+++.

INTERNET CONTROL: Optional.

### Aquarea H Generation High Performance Bi-Bloc Three Phase. Heating and Cooling - SDC

TENTATIVE DATA

		Three Phase (Power to indoor)		
		KIT-WC09H3E8 <sup>1</sup>	KIT-WC12H9E8 <sup>1</sup>	KIT-WC16H9E8 <sup>1</sup>
Heating capacity at +7°C (heating water at 35°C)	kW	9,00	12,00	16,00
COP at +7°C (heating water at 35°C)	W/W	4,84	4,14	4,28
Heating capacity at +2°C (heating water at 35°C)	kW	9,00	11,40	13,00
COP at +2°C (heating water at 35°C)	W/W	3,59	3,44	3,28
Heating capacity at -7°C (heating water at 35°C)	kW	9,00	10,00	11,40
COP at -7°C (heating water at 35°C)	W/W	2,85	2,73	2,68
Heating capacity at -15°C (heating water at 35°C)	kW	8,65	9,30	10,60
COP at -15°C (heating water at 35°C)	W/W	2,83	2,69	2,59
Cooling capacity at 35°C (cooling water at 7/12°C)	kW	7,00	10,00	12,20
EER at 35°C (cooling water at 7/12°C)	W/W	3,17	2,81	2,56
Energy Efficiency Class at 35°C		A++	A++	A++
Energy Efficiency Class at 55°C		A++	A++	A++
<b>Indoor Unit</b>		<b>WH-SDC09H3E8</b>	<b>WH-SDC12H9E8</b>	<b>WH-SDC16H9E8</b>
Sound pressure level	Heating / Cooling	dB(A) 28 / 28	28 / 28	28 / 28
Dimensions / Weight	H x W x D	mm / kg 892 x 500 x 340 / 44	892 x 500 x 340 / 44	892 x 500 x 340 / 44
Water pipe connector		mm 28	28	28
Pump	Number of speeds	Variable Speed	Variable Speed	Variable Speed
	Power input (Min / Max)	W 32 / 102	34 / 110	30 / 105
Heating water flow (ΔT=5 K, 35°C)	l/min	25,8	34,4	45,9
Capacity of integrated electric heater	kW	3	3	3
Recommended fuse	A	15 / 30	15 / 30	15 / 30
Recommended cable size, supply 1 & 2	mm <sup>2</sup>	3 x 1,5 / 3 x 1,5	3 x 1,5 / 3 x 1,5	3 x 1,5 / 3 x 1,5
<b>Outdoor Unit</b>		<b>WH-UD09HE8</b>	<b>WH-UD12HE8</b>	<b>WH-UD16HE8</b>
Sound pressure level	Heating / Cooling	dB(A) 51 / 49	52 / 50	55 / 54
Dimensions / Weight	H x W x D	mm / kg 1.340 x 900 x 320 / 108	1.340 x 900 x 320 / 108	1.340 x 900 x 320 / 108
Refrigerant (R410A)		kg 2,55	2,55	2,55
Pipe diameter	Liquid pipe / Gas pipe	Inch (mm) 3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)
Pipe length range / Elevation difference (in/out)	m	3 - 30 / 20	3 - 30 / 20	3 - 30 / 20
Pipe length for additional gas / Additional gas amount	m / g/m	10 / 50	10 / 50	10 / 50
Operation range	Outdoor ambient	°C -27 ~ +35	-27 ~ +35	-27 ~ +35
Water outlet	Heating / Cooling	°C 25 - 55 / 5 - 20	25 - 55 / 5 - 20	25 - 55 / 5 - 20



**CZ-TAW1**  
Internet Control App

- A+++ / A++ EP 55°C
- A+++ / A++ EP 35°C
- INVERTER+
- A CLASS WATER PUMP
- 4,84 COP
- DIW
- HEATING MODE
- WATER FILTER
- STOP VALVE
- FLOW SENSOR
- BOILER CONNECTION
- SOLAR KIT
- ADVANCED CONTROL
- INTERNET CONTROL
- BMS CONNECTIVITY
- 5 YEARS WARRANTY

Accessories		Accessories	
WH-TD20E3E5	Tank 200L Inox w/ 3 way valve	CZ-NS4P	Additional functions PCB
WH-TD30E3E5-1	Tank 300L Inox w/ 3 way valve	PAW-BTANK50L	Buffer tank 50L
PAW-TD20B8E3-NDS	Tank 200L Enamelled w/ 3 way valve	CZ-TAW1	Aquarea Smart Cloud, H Generation Internet control through Wifi or wired LAN
CZ-TK1	Temperature sensor for 3rd party tank	PAW-A2W-RTWIRED	Temperature sensor
CZ-NV1	3 way valve Kit		

NEW H Generation Sensors		NEW H Generation Tools	
PAW-A2W-TS0D	Outdoor ambient sensor	PAW-A2W-LOGGER	Data Logger: With this tool we can log data during a long period (available in August 2016)
PAW-A2W-TSRT	Zone room sensor	PAW-A2W-CHECKER	Service checker: With this tool we will have a life monitoring at our PC (available in August 2016)
PAW-A2W-TSBU	Buffer tank sensor		
PAW-A2W-TSHU	Zone water sensor		
PAW-A2W-TSSO	Solar sensor		

COP classification is at 230V only in accordance with EU directive 2003/32/EC. Sound pressure measured at 1m from the outdoor unit and at 1.5m height. Heating sound pressure measured at +7°C (heating water at 55°C). Performance in agreement with EN14511. 1) Available in December 2016.

INTERNET CONTROL: Optional.