

AQUAREA H GENERATION

HIGH PERFORMANCE

BI-BLOC SINGLE PHASE

HEATING AND COOLING - SDC

NEW



The new H Generation are specially designed for low energy homes and achieve an impressive COP of 5 (on the 3.2kW)

Thanks to the system's high degree of technology and advanced control, it is able to maintain a high capacity and efficiency even at -7°C and -15°C. The Aquarea's software is optimised to the requirements of low consumption homes in order to maximise energy efficiency.

Whatever the weather, Aquarea can work even at -20°C. The compact design of the outdoor unit makes installation very easy.

Technical focus

- **NEW!** Touch Controller
- **NEW!** Indoor Unit

- Super efficient: COP of 5 in the 3.2kW!
- Very high energy savings A+++ (*)
- Simple installation & maintenance
- Special software for low consumption homes with minimum output temperature: 20°C
- Works at temperatures as low as -20°C
- Automatic Air purge valve
- Display of the compressor frequency

TENTATIVE DATA			Single Phase Heating and Cooling			
Kit			KIT-WC03H3E5	KIT-WC05H3E5	KIT-WC07H3E5¹	KIT-WC09H3E5¹
Heating capacity at +7°C (heating water at 35°C)		kW	3.20	5.00	7.00	9.00
COP at +7°C (heating water at 35°C)		W/W	5.00	4.63	4.46	4.13
Heating capacity at +2°C (heating water at 35°C)		kW	3.20	4.20	6.55	6.70
COP at +2°C (heating water at 35°C)		W/W	3.56	3.11	3.34	3.13
Heating capacity at -7°C (heating water at 35°C)		kW	3.20	4.20	5.15	5.90
COP at -7°C (heating water at 35°C)		W/W	2.69	2.59	2.68	2.52
Cooling capacity at 35°C (cooling water at 7/12°C)		kW	3.20	4.50	6.00	7.00
EER at 35°C (cooling water at 7/12°C)		W/W	3.08	2.69	2.63	2.43
Energy Efficiency Class at 35°C / 55°C			A++ / A++			
System label 35°C / 55°C²			A+++ / A++			
Indoor Unit			WH-SDC03H3E5	WH-SDC05H3E5	WH-SDC07H3E5	WH-SDC09H3E5
Sound pressure level	Heating / Cooling	dB(A)	28 / 28		30 / 30	
Dimensions / Weight	H x W x D	mm / kg	892 x 500 x 340 / 44			
Water pipe connector		mm	28			
A class Pump		Number of speeds	Variable Speed			
	Input power (Min / Max)	W	30 / 100	33 / 106	34 / 114	40 / 120
Heating water flow (ΔT=5 K, 35°C)		l/min	9.2	14.3	20.1	25.8
Capacity of integrated electric heater		kW	3			
Recommended Fuse		A	15 / 30			
Recommended cable size, supply 1 & 2		mm²	3 x 1.5 / 3 x 1.5			
Outdoor Unit			WH-UD03HE5	WH-UD05HE5	WH-UD07HE5	WH-UD09HE5
Sound pressure level	Heating / Cooling	dB(A)	47 / 47	48 / 48	50 / 48	51 / 50
Dimensions / Weight	H x W x D	mm / kg	622 x 824 x 298 / 39		795 x 900 x 320 / 66	
Refrigerant (R410A)		kg	1.20		1.45	
Pipe diameter		l/nc	1/4 / 1/2		1/4 / 5/8	
Pipe length range / Elevation difference (in/out)		m	3 ~ 15 / 5		3 ~ 30 / 20	
Pipe length for additional gas / Additional gas amount		m / g/m	10 / 20			
Operation range		Outdoor ambient	-20 ~ +35			
Water outlet		Heating / Cooling	20 ~ 55 / 5 ~ 20			
Accessories			Accessories			
PAW-TE18C2E3HI-UK		Tank 180L Slimline HP Tank	CZ-NS4P		PCB for 0-10V control, 2 zones control and external changeover mode	
PAW-TE18E3STD-UK		Tank 180L Standard Heat Pump Tank	PAW-BTANK50L		Buffer tank 50L	
PAW-TE30E3STD-UK		Tank 300L Standard Heat Pump Tank	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		Wired Thermostat	
CZ-NV1		3 way valve Kit				

COP classification is at 230 V 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 14825) for heat pumps, which is officially binding from September 2015. Efficiency classes marked with * would meet the new regulations from September 2019 to a classification as A+++. 1) Available in April 2016. 2) System label with controller. Tentative data.



WH-UD03HE5
WH-UD05HE5



WH-UD07HE5
WH-UD09HE5



INTERNET CONTROL: Optional. 5 YEARS COMPRESSOR WARRANTY AND EXTENDED 7 YEARS COST OPTION: Exclusively for PRO Partners. MCS APPROVED PRODUCT: For full MCS approved product list please go to www.microgenerationcertification.org/consumers or www.aircon.panasonic.co.uk/GB_en/downloads/others.

AQUAREA HIGH PERFORMANCE

BI-BLOC SINGLE PHASE

HEATING AND COOLING - SDC



The Aquarea SDC range adapts well in an existing installation with a boiler backup, and in a new application with underfloor heating, low temperature radiators or even fan-coil heaters

This range can also be connected to a solar kit in order to increase efficiency and minimise the impact on the ecosystem. Finally, it is possible to connect a thermostat for better heating and cooling control and management.

Technical focus

- New remote control functions
- Efficient control of room temperature based on the outdoor temperature, indoor temperature using the Aquarea Manager.
- Optional Smartphone control
- Range from 7 to 16kW
- Maximum hydraulic module output temperature: 55°C
- Works at temperatures as low as -20°C
- Maximum 30 m rise between the outdoor unit and the hydraulic module
- Cooling temperature range 5 ~ 20°C

			Single Phase (Power to indoor)			
Kit			KIT-WC07F3E5	KIT-WC09F3E5	KIT-WC12F6E5	KIT-WC16F6E5
Heating capacity at +7°C (heating water at 35°C)	kW		7.00	9.00	12.0	16.00
COP at +7°C (heating water at 35°C)	W/W		4.46	4.13	4.74	4.28
Heating capacity at +2°C (heating water at 35°C)	kW		6.55	6.70	11.40	13.00
COP at +2°C (heating water at 35°C)	W/W		3.34	3.13	3.44	3.28
Heating capacity at -7°C (heating water at 35°C)	kW		5.15	5.90	10.00	11.40
COP at -7°C (heating water at 35°C)	W/W		2.68	2.52	2.73	2.68
Cooling capacity at 35°C (cooling water at 7/12°C)	kW		6.00	7.00	10.00	12.20
EER at 35°C (cooling water at 7/12°C)	W/W		2.63	2.43	2.81	2.56
Energy Efficiency Class at 35°C			A++			
Energy Efficiency Class at 55°C			A++			
Indoor Unit			WH-SDC07F3E5	WH-SDC09F3E5	WH-SDC12F6E5	WH-SDC16F6E5
Sound pressure level	Heating / Cooling	dB(A)			33 / 33	
Dimensions / Weight	H x W x D	mm / kg	892 x 502 x 353 / 43		892 x 502 x 353 / 45	892 x 502 x 353 / 46
Water pipe connector			R 1 1/4			
Pump	Number of speeds		7			
	Input power (Min / Max)	W	34 / 114	40 / 120	34 / 110	30 / 105
Heating water flow (ΔT=5 K, 35°C)		l/min	20.1	25.8	34.4	45.9
Capacity of integrated electric heater		kW	3		6	
Recommended Fuse		A	30 / 30			
Recommended cable size, supply 1 & 2		mm²	3 x 4.0 or 6.0 / 3 x 4.0			
Outdoor Unit			WH-UD07FE5	WH-UD09FE5	WH-UD12FE5	WH-UD16FE5
Sound pressure level	Heating / Cooling	dB(A)	50 / 48	51 / 50	52 / 50	55 / 54
Dimensions / Weight	H x W x D	mm / kg	795 x 900 x 320 / 66		1,340 x 900 x 320 / 101	
Refrigerant (R410A)		kg	1.45		2.55	
Pipe diameter	Liquid / Gas	Inch	1/4 / 5/8		3/8 / 5/8	
Pipe length range / Elevation difference (in/out)		m	3 ~ 30 / 20		3 ~ 30 / 20	
Pipe length for additional gas / Additional gas amount		m / g/m	10 / 30		10 / 50	
Operation range	Outdoor ambient	°C	-20 ~ +35			
Water outlet	Heating / Cooling	°C	25 ~ 55 / 5 ~ 20			

Accessories	
PAW-TE18C2E3HI-UK	Tank 180L Slimline HP Tank
PAW-TE18E3STD-UK	Tank 180L Standard Heat Pump Tank
PAW-TE30E3STD-UK	Tank 300L Standard Heat Pump Tank
CZ-TK1	Temperature sensor for 3rd party tank
PAW-BTANK50L	Buffer tank 50L

Accessories	
PA-AW-WIFI-1TE	Wifi interface
PAW-A2W-BIV	Bivalent controller
PAW-FLWMTR-KIT	Connection kit with flow indicator, strain filter and isolation valves
PAW-A2W-RTWIRED	Wired Thermostat

COP classification is at 230 V 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.



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AQUAREA T-CAP

BI-BLOC SINGLE PHASE / THREE PHASE

HEATING AND COOLING - SXC



The new SXC is ideal for residential properties which don't have an external boiler and require a maintained capacity level

T-CAP stands for Total Capacity. This new line-up is able to maintain the same nominal capacity even at -15°C without the help of an electrical booster heater. T-CAP is also able to provide extremely high efficiency, whatever the outside temperature or the water temperature. The SXC adapts well in an existing install with a boiler backup, and in a new application with underfloor heating, low temperature radiators or even fan-coil heaters. This Range can also be connected to a solar kit in order to increase efficiency and minimise the impact on the ecosystem. Finally, it is possible to connect a thermostat for even better heating or cooling control and management.

Technical focus

- 16kW Model: Maintains 16kW capacity at outdoor temperatures down to -15°C
- New remote control functions
- Efficient control of room temperature based on the outdoor temperature, indoor temperature using the Aquarea Manager.
- Optional Smartphone control
- Range from 9 to 16kW, Single and Three Phase
- Maximum hydraulic module output temperature: 55°C
- Works at temperatures as low as -20°C (Cooling temperature range 5 ~ 20°C)
- Constant capacity at outdoor temperatures down to -15°C
- Maximum 20 m rise between the outdoor unit and the hydraulic module

			Single Phase (Power to indoor)		Three Phase (Power to indoor)		
Kit			KIT-WXC09F3E5	KIT-WXC12F6E5	KIT-WXC09F3E8	KIT-WXC12F9E8	KIT-WXC16F9E8
Heating capacity at +7°C (heating water at 35°C)	kW		9.00	12.00	9.00	12.00	16.00
COP at +7°C (heating water at 35°C)	W/W		4.84	4.74	4.84	4.74	4.28
Heating capacity at +2°C (heating water at 35°C)	kW		9.00	12.00	9.00	12.00	16.00
COP at +2°C (heating water at 35°C)	W/W		3.59	3.44	3.59	3.44	3.10
Heating capacity at -7°C (heating water at 35°C)	kW		9.00	12.00	9.00	12.00	16.00
COP at -7°C (heating water at 35°C)	W/W		2.85	2.72	2.85	2.72	2.49
Cooling capacity at 35°C (cooling water at 7°C)	kW		7.00	10.00	7.00	10.00	12.20
EER at 35°C (cooling water at 7°C)	W/W		3.17	2.81	3.17	2.81	2.57
Energy Efficiency Class at 35°C			A++				
Energy Efficiency Class at 55°C			A++				
Indoor Unit			WH-SXC09F3E5	WH-SXC12F6E5	WH-SXC09F3E8	WH-SXC12F9E8	WH-SXC16F9E8
Sound pressure level	Heating / Cooling	dB(A)	33 / 33				
Dimensions / Weight	H x W x D	mm / kg	892 x 502 x 353 / 44	892 x 502 x 353 / 45		892 x 502 x 353 / 46	892 x 502 x 353 / 52
Water pipe connector			R 1 ¼				
Pump	Number of speeds		7				
	Input power (Min / Max)	W	32 / 102	34 / 110	32 / 102	34 / 110	30 / 105
Heating water flow (ΔT=5 K, 35°C)	l/min		25.8	34.4	25.8	34.4	45.9
Capacity of integrated electric heater	kW		3	6	3	9	
Recommended Fuse	A		30 / 30		16 / 16		
Recommended cable size, supply 1 & 2	mm²		3 x 4.0 or 6.0 / 3 x 4.0			5 x 1.5 / 3 x 1.5	
Outdoor Unit			WH-UX09FE5	WH-UX12FE5	WH-UX09FE8	WH-UX12FE8	WH-UX16FE8
Sound pressure level	Heating / Cooling	dB(A)	51 / 49	52 / 50	51 / 49	52 / 50	55 / 54
Dimensions / Weight	H x W x D	mm / kg	1,340 x 900 x 320 / 101		1,340 x 900 x 320 / 109		1,340 x 900 x 320 / 119
Refrigerant (R410A)		kg	2.85				2.90
Pipe diameter	Liquid / Gas	Inch	3/8 / 5/8				
Pipe length range / Elevation difference (in/out)		m	3 ~ 30 / 20				
Pipe length for additional gas / Additional gas amount		m / g/m	10 / 50				
Operation range	Outdoor ambient	°C	-20 ~ +35				
Water outlet	Heating / Cooling	°C	25 ~ 55 / 5 ~ 20				

Accessories

PAW-TE18C2E3HI-UK	Tank 180L Slimline HP Tank
PAW-TE18E3STD-UK	Tank 180L Standard Heat Pump Tank
PAW-TE30E3STD-UK	Tank 300L Standard Heat Pump Tank
CZ-TK1	Temperature sensor for 3rd party tank
PAW-BTANK50L	Buffer tank 50L

Accessories

PA-AW-WIFI-1TE	Wifi interface
PAW-A2W-BIV	Bivalent controller
PAW-FLWMTR-KIT	Connection kit with flow indicator, strain filter and isolation valves
PAW-A2W-RTWIRED	Wired Thermostat

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WH-UX09FE5
WH-UX12FE5
WH-UX09FE8
WH-UX12FE8
WH-UX16FE8



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AQUAREA HT

BI-BLOC SINGLE PHASE / THREE PHASE HEATING ONLY - SHF



Aquarea HT is able to deliver water heated to 65°C with the Heat Pump alone

For a house with high temperature radiators (for example, cast iron radiators), the Aquarea High Temperature Solution is the most suited as it provides output water temperatures of 65°C even at -20°C.

Technical focus

- New remote control functions
- Efficient control of room temperature based on the outdoor temperature, indoor temperature using the Aquarea Manager.
- Optional Smartphone control
- Range from 9 to 12kW, Single and Three Phase
- Maximum hydraulic module output temperature: 65°C
- Works at temperatures as low as -20°C
- Maximum 20 m rise between the outdoor unit and the hydraulic module

			Single Phase (Power to indoor)		Three Phase (Power to indoor)
Kit			KIT-WHF09F3E5	KIT-WHF12F6E5	KIT-WHF12F9E8
Heating capacity at +7°C (heating water at 35°C)	kW		9.00	12.00	12.00
COP at +7°C (heating water at 35°C)	W/W		5.06	4.46	4.56
Heating capacity at +2°C (heating water at 35°C)	kW		9.00	12.00	12.00
COP at +2°C (heating water at 35°C)	W/W		3.45	3.26	3.26
Heating capacity at -7°C (heating water at 35°C)	kW		9.00	12.00	12.00
COP at -7°C (heating water at 35°C)	W/W		2.74	2.52	2.52
Heating capacity at +7°C (heating water at 65°C)	kW		9.00	12.00	12.00
COP at +7°C (heating water at 65°C)	W/W		2.27	2.22	2.22
Heating capacity at +2°C (heating water at 65°C)	kW		9.00	10.30	10.30
COP at +2°C (heating water at 65°C)	W/W		1.89	1.84	1.84
Heating capacity at -7°C (heating water at 65°C)	kW		8.90	9.60	9.60
COP at -7°C (heating water at 65°C)	W/W		1.63	1.62	1.62
Energy Efficiency Class at 35°C			A++		
Energy Efficiency Class at 55°C			A++		
Indoor Unit			WH-SHF09F3E5	WH-SHF12F6E5	WH-SHF12F9E8
Sound pressure level		dB(A)	33		
Dimensions / Weight	H x W x D	mm / kg	892 x 502 x 353 / 46	892 x 502 x 353 / 47	892 x 502 x 353 / 48
Water pipe connector			R 1 ¼		
Pump	Number of speeds		7		
	Input power (Min / Max)	W	38 / 100	40 / 106	
Heating water flow (ΔT=5 K, 35°C)		l/min	25.8	34.4	
Capacity of integrated electric heater		kW	3	6	9
Recommended Fuse		A	30 / 30		30 / 16
Recommended cable size, supply 1 & 2		mm²	3 x 4.0 or 6.0 / 3 x 4.0		5 x 1.5 / 5 x 1.5
Outdoor Unit			WH-UH09FE5	WH-UH12FE5	WH-UH12FE8
Sound pressure level		dB(A)	51	52	
Dimensions / Weight	H x W x D	mm / kg	1,340 x 900 x 320 / 104		1,340 x 900 x 320 / 110
Refrigerant (R407C)		kg	2.90		
Pipe diameter	Liquid / Gas	Inch	3/8 / 5/8		
Pipe length range / Elevation difference (in/out)		m	3 ~ 30 / 20		
Pipe length for additional gas / Additional gas amount		m / g/m	10 / 70		
Operation range	Outdoor ambient	°C	-20 ~ +35		
Water outlet		°C	25 ~ 65		
Accessories			Accessories		Accessories
PAW-TE18C2E3HI-UK	Tank 180L Slimline HP Tank		CZ-TK1	Temperature sensor for 3rd party tank	
PAW-TE18E3STD-UK	Tank 180L Standard Heat Pump Tank		PAW-BTANK50L	Buffer tank 50L	
PAW-TE30E3STD-UK	Tank 300L Standard Heat Pump Tank		PA-AW-WIFI-1TE	Wifi interface	
Accessories			Accessories		Accessories
PAW-A2W-BIV	Bivalent controller		PAW-FLWMTR-KIT	Connection kit with flow indicator, strain filter and isolation valves	
PAW-A2W-RTWIRED	Wired Thermostat				

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WH-UH09FE5
WH-UH12FE5
WH-UH12FE8



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