

# Aquarea H Generation High Performance

## Bi-bloc Single Phase / Three Phase.

### Heating and Cooling - SDC



WH-UD03HE5-1  
WH-UD05HE5-1



WH-UD07HE5-1  
WH-UD09HE5-1



WH-UD12HE5  
WH-UD16HE5  
WH-UD09HE8

Aquarea H Generation High Performance		Single Phase (Power to indoor)						Three Phase (Power to indoor)			
Kit		KIT-WC03H3E5	KIT-WC05H3E5	KIT-WC07H3E5	KIT-WC09H3E5	KIT-WC012H6E5	KIT-WC016H6E5	KIT-WC09H3E8	KIT-WC12H9E8	KIT-WC16H9E8	
Heating capacity at +7°C (heating water at 35°C)	kW	3,20	5,00	7,00	9,00	12,00	16,00	9,00	12,00	16,00	
COP at +7°C (heating water at 35°C)	W/W	5,00	4,63	4,46	4,13	4,74	4,28	4,84	4,74	4,28	
Heating capacity at +2°C (heating water at 35°C)	kW	3,20	4,20	6,55	6,70	11,40	13,00	9,00	11,40	13,00	
COP at +2°C (heating water at 35°C)	W/W	3,56	3,11	3,34	3,13	3,44	3,28	3,59	3,44	3,28	
Heating capacity at -7°C (heating water at 35°C)	kW	3,20	4,20	5,15	5,90	10,00	11,40	9,00	10,00	11,40	
COP at -7°C (heating water at 35°C)	W/W	2,69	2,59	2,68	2,52	2,73	2,57	2,85	2,73	2,57	
Cooling capacity at 35°C (cooling water at 7/12°C)	kW	3,20	4,50	6,00	7,00	10,00	12,20	7,00	10,00	12,20	
EER at 35°C (cooling water at 7/12°C)	W/W	3,08	2,69	2,63	2,43	2,81	2,56	3,17	2,81	2,56	
Energy Efficiency Class at 35°C <sup>1</sup> / at 55°C <sup>1</sup>		◀A++ / A++	◀A++ / A++	◀A++ / A++	◀A++ / A++	◀A++ / A++	◀A++ / A++	◀A++ / A++	◀A++ / A++	◀A++ / A++	
System label 35°C / 55°C <sup>2</sup>		◀A+++ / A++	◀A+++ / A++	◀A+++ / A++	◀A+++ / A++	◀A+++ / A++	◀A+++ / A++	◀A+++ / A++	◀A+++ / A++	◀A+++ / A++	
<b>Indoor unit</b>		<b>WH-SDC03H3E5-1</b>	<b>WH-SDC05H3E5-1</b>	<b>WH-SDC07H3E5-1</b>	<b>WH-SDC09H3E5-1</b>	<b>WH-SDC12H6E5</b>	<b>WH-SDC16H6E5</b>	<b>WH-SDC09H3E8</b>	<b>WH-SDC12H9E8</b>	<b>WH-SDC16H9E8</b>	
Sound pressure	Heating / Cooling	dB(A) 28 / 28		30 / 30		33 / 33		33 / 33		33 / 33	
Dimensions*	H x W x D	mm 892 x 500 x 340		892 x 500 x 340		892 x 500 x 340		892 x 500 x 340		892 x 500 x 340	
Net Weight*		kg 44		44		44		44		45	
Heating water flow (ΔT=5 K, 35°C)	l/min	9,2		14,3		20,1		25,8		34,4	
Capacity of integrated electric heater	kW	3		3		6		3		9	
<b>Outdoor Unit</b>		<b>WH-UD03HE5-1</b>	<b>WH-UD05HE5-1</b>	<b>WH-UD07HE5-1</b>	<b>WH-UD09HE5-1</b>	<b>WH-UD12HE5</b>	<b>WH-UD16HE5</b>	<b>WH-UD09HE8</b>	<b>WH-UD12HE8</b>	<b>WH-UD16HE8</b>	
Sound pressure	Heating / Cooling	dB(A) 47 / 47		50 / 48		51 / 50		52 / 50		55 / 54	
Dimensions / Weight	H x W x D	mm 622 x 824 x 298		622 x 824 x 298		795 x 900 x 320		795 x 900 x 320		1.340 x 900 x 320	
Net Weight		kg 39		39		66		101		107	
Refrigerant (R410A)		kg 1,20		1,20		1,45		1,45		2,55	
	TCO <sub>2</sub> Eq.	2,506		2,506		3,028		3,028		5,324	
Water outlet	Heating / Cooling	°C 20 - 55 / 5 - 20		20 - 55 / 5 - 20		25 - 55 / 5 - 20		25 - 55 / 5 - 20		25 - 55 / 5 - 20	

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 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) Scale from G to A+. 2) System label with controller, scale from D to A+++. \* Tentative data.

## GOOD DESIGN AWARD 2017

GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc H Generation awarded the prestigious Good Design Award 2017.

Better Efficiency & Value. For medium temperature applications. Aquarea systems meets ErP regulation as A++.	Better Efficiency & Value. For low temperature applications. Aquarea systems meets ErP regulation as A++.	The A Inverter+ system provides energy savings of up to 30% compared to non Inverter models. Both you, and nature, wins!	Aquarea are built-in with A class water pump. H Generation with auto speed, and F Generation and normal G Generation with 7 speeds.	Aquarea High Performance for low consumption houses. From 3 to 16kW. For a house with low temperature radiators or under-floor heating, our high performance Aquarea HP is a good solution.	DHW. With Aquarea you can also heat your domestic hot water at a very low cost with the optional hot water cylinder.	Down to -20°C in heating mode. The Heat Pumps work in Heat Pump mode with an outdoor temperature as low as -20°C.	Water filter (easy access & fast clip technology) for H Generation.	Check valve built in.	Water Flow Sensor included on H Generation.	Renovation. Our Aquarea Heat Pumps can be connected to an existing or new boiler for optimum comfort even at very low outdoor temperatures.	Solar Kit. For even greater efficiency, our Aquarea Heat Pumps can be connected to photovoltaic solar panels with an optional kit.	New remote controller with full dotted 3,5" wide back light screen. Menu with 10 available languages easy to use for installer and user. Included on H Generation.	Internet Control is a next generation system providing a user-friendly remote controller of air conditioning or Heat Pump units from everywhere, using a simple Android or iOS smartphone, tablet or PC via internet.	Connectivity. The communication port is integrated into the indoor unit and provides easy connection to, and control of, your Panasonic Heat Pump to your home or building management system.	5 Years Warranty. We guarantee the compressors in the entire range for five years.

SG Ready: Thanks to Aquarea HPM, Aquarea range (Bi-bloc and Mono-bloc) is holding the SG Ready Label (Smart Grid Ready Label), given by Bundesverband Wärmepumpe (German Heat Pump Association). This Label shows the real capacity of Aquarea to be connected in an intelligent grid control. MCS Certificate number: MCS HP0086.\*



# Panasonic

To find out how Panasonic cares for you, log on to: [www.aircon.panasonic.eu](http://www.aircon.panasonic.eu)

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heating & cooling solutions

# Panasonic

Panasonic

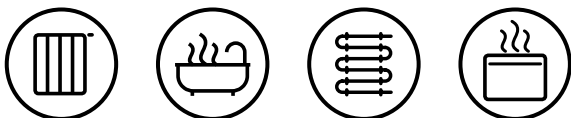


## AQUAREA BI-BLOC HIGH PERFORMANCE HEAT PUMP

A highly efficient system for  
new installation and low  
consumption homes



GOOD  
DESIGN  
AWARD  
2017



heating & cooling solutions



AQUAREA

# THE PEAK OF COMFORT, EFFICIENCY AND LOW ENERGY COSTS

## 4 reasons why Aquarea is an ideal solution for your home

### 1 Wide range to suit all homes

Aquarea is an innovative low-energy system, designed to provide ideal temperatures and hot water in the home, even with extreme outdoor temperatures. It is highly reliable thanks to the quality of all components, including the compressor, developed and manufactured by Panasonic. With many units to choose from, the Aquarea Range offers a very wide choice to ensure the most appropriate choice for your home - whatever the size.

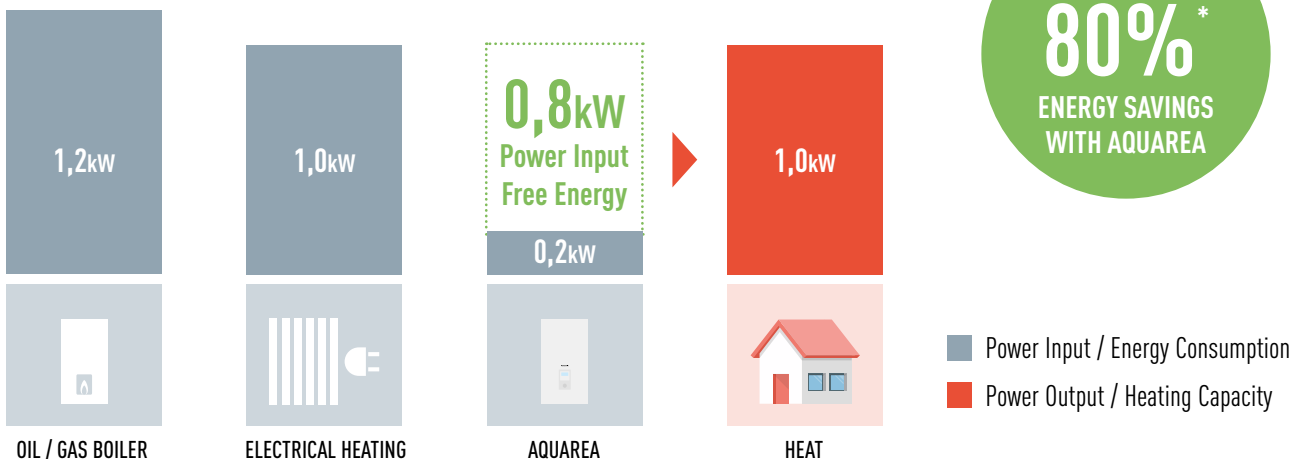
### 2 Heat Pump, 80% of energy for free

Based on Air to Water heat pump technology, Aquarea is highly efficient and environmentally friendly. It captures heat energy from the ambient air and transfers it to heat the water needed to warm your home, for domestic hot water and even to cool the house if wished. In this way, up to 80% of the heat energy required is taken from the ambient air - even in extremely low temperatures.

Aquarea supplies energy efficient hot water for radiators and underfloor heating systems, as well as domestic hot water.



### Energy consumption comparison



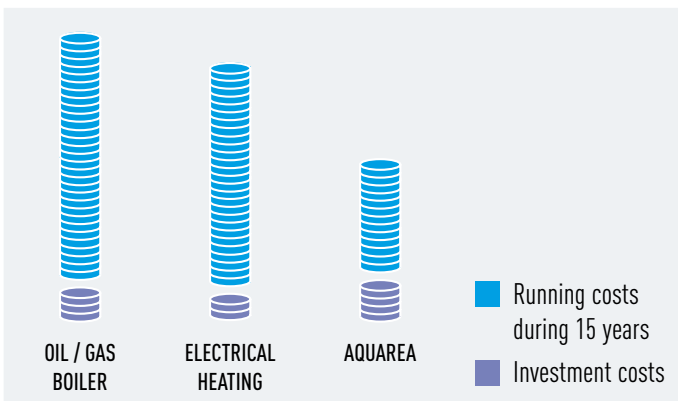
\* Rating conditions: Heating: Inside air temperature: 20°C Dry Bulb / Outside air temperature: 7°C Dry Bulb / 6°C Wet Bulb. Conditions : Water input temperature: 30°C Water output temperature: 35°C

An innovative new low-energy system! Panasonic's Aquarea range of Heat Pumps delivers major energy savings thanks to its tremendous efficiency even at -20°C.

Panasonic offers a wide range of tanks to adapt to any specific need with high quality standards and a new line up of Aquarea Air Super low temperature radiators for Heat Pump application.

### 3 Helps you to save money

Energy cost savings of up to €1100 a year are possible compared to conventional electric heating. Whilst initial investment may be higher than other technologies, running costs are far cheaper and with a short payback period on initial cost. Savings are significant particularly when compared to oil-fired boilers and electric heaters.



### 4 Aquarea High Performance

Aquarea High Performance is ideal for low temperature radiators or underfloor heating. It generates hot water up to 55°C even when outdoor temperatures are as low as -20°C. It operates as stand alone system or combined with existing gas or oil boilers stand-alone system. Its power range goes from 3kW to 16kW, fully adapting performance of the heat pump to suit the needs of your home.



## Aquarea High Performance: Energy saving

Aquarea High Performance delivers outstanding efficiency in heating and also in domestic hot water. Easy to maintain thanks to built in devices like water filter, water flow sensor and ready to for Smart Cloud remote service, it is also ready to operate down to -23°C .

<p><b>-23°C</b></p> <p>OPERATES DOWN TO EXTREME OUTDOOR TEMPERATURE</p>	<p><b>55°C</b></p> <p>HOT WATER SUPPLY</p>	<p><b>A CLASS</b></p> <p>WATER PUMP</p> <p>AUTO SPEED</p>	<p><b>A++</b></p> <p>ErP 55°C</p> <p>Scale from G to A++</p>	<p><b>A+++</b></p> <p>35°C SYSTEM LABEL</p> <p>Scale from G to A+++</p>	<p><b>EASY MAINTENANCE</b></p> <p>EASY MAINTENANCE</p>
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## Aquarea Smart Cloud

### Full control of your system via smartphone when connected with the Aquarea Smart Cloud

It enables the monitoring, evaluation and optimisation of in-house and water temperatures or energy consumption anywhere anytime. Another plus: remote service maintenance by your service provider to detect potential failures or to fix potential issues remotely, reducing response time and disruption to a minimum.



\* User interface image may change without notification.