

**NEW HIGH PERFORMANCE**

**Panasonic**

**IDEAL FOR  
NEW HOUSING  
AND RETROFIT**



**New High Performance  
Heat pumps**

- Maximum savings
- Maximum efficiency
- Minimum CO<sub>2</sub> emissions
- Minimum of space.

**AQUAREA**

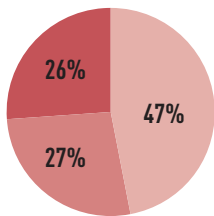
**5,08 COP**  
high efficiency

**AQUAREA**  
HIGH PERFORMANCE

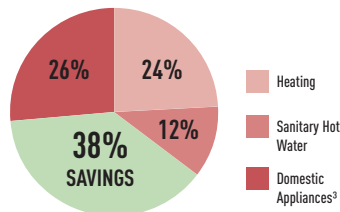
Panasonic has designed the new Aquarea Bi-Bloc, Mono-Bloc and All in One heat pumps for homes which have high performance requirements. Whatever the weather, Aquarea can work even at -20 °C! The New Aquarea is easy to install on new or existing installations, in all types of properties.

**Total energy consumption of a conventional house, compared to the energy consumption with Panasonic heat pumps**

TOTAL ENERGY CONSUMPTION OF A CONVENTIONAL HOUSE<sup>1</sup>



ENERGY CONSUMPTION WITH PANASONIC HEAT PUMPS<sup>2</sup>

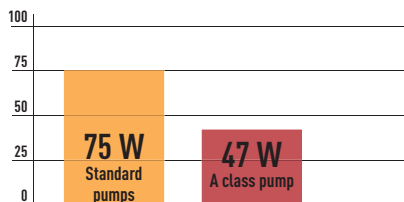


1. Source: IDEA, European values 2010. Consumption of a conventional house of 80 kWh/(m<sup>2</sup>·year). 2. Source: Panasonic, RT2012 simulation, house of 50 kWh/(m<sup>2</sup>·year) per year, equipped by Panasonic heat pump. 3. Eg. Fridge, telephone, oven,...

**A new A-class Pump with Constant water flow (Dynamic pump control) for 5kW Mono-Bloc**

A Class pump adapts water pressure according to demand, reducing energy consumption, noise on the valves, and makes installation easy.

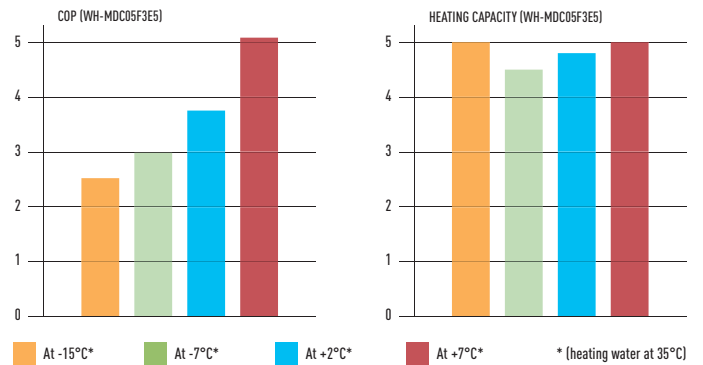
**Comparison of energy consumption - Standard pumps vs A class pump**



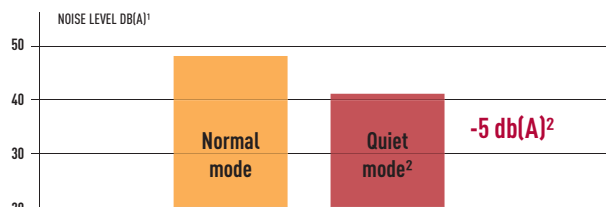
**Equivalent to 100 €/year saving\***

\* Based on German market: Assuming Standard pump may vary depending on consumption and energy cost.

**The new Panasonic High Connectivity house extremely high performance even at low temperature**



**Special attention has been given to noise levels - Panasonic created a night mode to reduce the noise when it's needed.**



1. Sound pressure measured at 1 m from the outdoor unit and at 1.5 m height.  
2. At standard condition working at heating capacity at +7°C (heating water at 35°C) for two fans outdoor units. For one fan outdoor units, night mode reduction is 3dB(A).



AQUAREA HIGH PERFORMANCE BI-BLOC SINGLE PHASE HEATING ONLY - SDF HEATING AND COOLING - SDC 3 AND 5KW					
Kit	Single Phase Heating Only		Single Phase Heating and Cooling		
	KIT-WF03C3E5	KIT-WF05C3E5	KIT-WC03C3E5	KIT-WC05C3E5	
Indoor unit	WH-SDF03E3E5	WH-SDF05E3E5	WH-SDC03E3E5	WH-SDC05E3E5	
Outdoor unit	WH-UD03E5E5	WH-UD05E5E5	WH-UD03E5E5	WH-UD05E5E5	
Heating capacity at +7°C	kW	3,20	5,00	3,20	5,00
COP at +7°C <sup>1)</sup>		5,00	4,63	5,00	4,63
Heating capacity at +2°C	kW	3,20	4,20	3,20	4,20
COP at +2°C <sup>1)</sup>		3,56	3,11	3,56	3,11
Heating capacity at -7°C	kW	3,20	4,20	3,20	4,20
COP at -7°C <sup>1)</sup>		2,69	2,59	2,69	2,59
Cooling capacity at 35°C	kW	-	-	3,20	4,50
EER at 35°C (cooling water at 7/12°C)		-	-	3,08	2,69
Dimensions (Indoor) H x W x D	mm / kg	892 x 502 x 353 / 43	892 x 502 x 353 / 43	892 x 502 x 353 / 44	892 x 502 x 353 / 44
Dimensions (Outdoor) H x W x D	mm / kg	622 x 824 x 298 / 39	622 x 824 x 298 / 39	622 x 824 x 298 / 39	622 x 824 x 298 / 39
Sound pressure level	dB(A)	47	48	47	48
Operation range	Outdoor ambient	°C	-20 to 35	-20 to 35	-20 to 35



AQUAREA HIGH PERFORMANCE MONO-BLOC SINGLE PHASE HEATING ONLY - MDF HEATING AND COOLING - MDC					
Heating capacity at +7°C	Single Phase Heating Only		Single Phase Heating and Cooling		
	WH-MDF06E3E5	WH-MDF09E3E5	WH-MDC05F3E5	WH-MDC06E3E5	
COP at +7°C <sup>1)</sup>		6,00	9,00	5,00	9,00
Heating capacity at +2°C	kW	4,48	4,15	5,08	4,48
COP at +2°C <sup>1)</sup>		5,00	7,45	4,80	5,00
Heating capacity at -7°C	kW	3,45	3,14	3,75	3,45
COP at -7°C <sup>1)</sup>		5,15	7,70	4,50	5,15
Cooling capacity at 35°C	kW	-	-	4,50	5,50
EER at 35°C (cooling water at 7°C) <sup>1)</sup>		-	-	3,33	2,74
Sound pressure level	dB(A)	47	49	47	49
Dimensions H x W x D	mm	865 x 1283 x 320	865 x 1283 x 320	865 x 1.283 x 320	865 x 1.283 x 320
Weight	kg	112	112	107	112
Pump	No. of Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed
Input power	W			Min: 21 W at 10l/min / Max: 135 W at 53.8l/min	
Operation range	Outdoor ambient	°C	-20 to 35	-20 to 35	-20 to 35

1) Heating water at 35°C



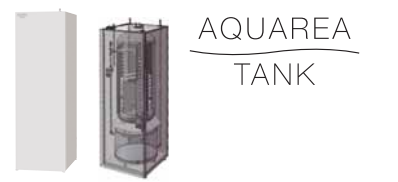
AQUAREA HIGH PERFORMANCE BI-BLOC SINGLE PHASE / THREE PHASE HEATING AND COOLING - SDC											
Kit	Single Phase (Power to indoor)					Three Phase (Power to indoor)					
	KIT-WC07F3E5 <sup>1)</sup>	KIT-WC09F3E5 <sup>1)</sup>	KIT-WC12F4E5 <sup>1)</sup>	KIT-WC14F4E5 <sup>1)</sup>	KIT-WC16F4E5 <sup>1)</sup>	KIT-WC09F3E8 <sup>1)</sup>	KIT-WC12F3E8 <sup>1)</sup>	KIT-WC14F3E8 <sup>1)</sup>	KIT-WC16F3E8 <sup>1)</sup>	KIT-WC16F9E8 <sup>1)</sup>	
Indoor unit	WH-SDC07F3E5	WH-SDC09F3E5	WH-SDC12F4E5	WH-SDC14F4E5	WH-SDC16F4E5	WH-SDC09F3E8	WH-SDC12F3E8	WH-SDC14F3E8	WH-SDC16F3E8	WH-SDC16F9E8	
Outdoor unit	WH-UD07F5E5	WH-UD09F5E5	WH-UD12F5E5	WH-UD14F5E5	WH-UD16F5E5	WH-UD09F5E8	WH-UD12F5E8	WH-UD14F5E8	WH-UD16F5E8		
Heating capacity at +7°C	kW	7,00	9,00	12,0	14,00	16,00	9,00	12,00	14,00	16,00	
COP at +7°C <sup>1)</sup>		4,46	4,13	4,74	4,56	4,28	4,84	4,14	4,56	4,28	
Heating capacity at +2°C	kW	6,55	6,70	11,40	12,40	13,00	9,00	11,40	12,40	16,00	
COP at +2°C <sup>1)</sup>		3,34	3,13	3,44	3,36	3,28	3,59	3,44	3,36	3,28	
Heating capacity at -7°C	kW	5,15	5,90	10,00	10,70	11,40	9,00	10,00	10,70	11,40	
COP at -7°C <sup>1)</sup>		2,68	5,52	2,73	2,70	2,68	2,85	2,23	2,70	2,68	
Cooling capacity at 35°C	kW	6,00	7,00	10,00	11,50	12,20	7,00	10,00	11,50	12,20	
EER at 35°C (cooling water at 7°C)		2,61	2,41	2,81	2,64	2,56	3,17	2,81	2,64	2,56	
Dimensions (Indoor) H x W x D	mm / kg	892 x 502 x 353	892 x 502 x 353	892 x 502 x 353	892 x 502 x 353	892 x 502 x 353	892 x 502 x 353	892 x 502 x 353	892 x 502 x 353	892 x 502 x 353	
Dimensions (Outdoor) H x W x D	mm / kg	795 x 900 x 320 / 66					1.340 x 900 x 320 / 101				
Sound pressure level	dB(A)	48	49	50	51	53	49	50	51	53	
Operation range	Outdoor ambient	°C	-20 to 35	-20 to 35	-20 to 35	-20 to 35	-20 to 35	-20 to 35	-20 to 35	-20 to 35	



AQUAREA HIGH PERFORMANCE MONO-BLOC SINGLE PHASE / THREE PHASE HEATING ONLY - MDF HEATING AND COOLING - MDC						
Outdoor unit Heating Only	Single Phase			Three Phase		
	WH-MDF12C6E5	WH-MDF14C6E5	WH-MDF16C6E5	WH-MDF09C3E8	WH-MDF12C9E8	WH-MDF14C9E8
Outdoor unit Heating and Cooling	WH-MDC12C6E5	WH-MDC14C6E5	WH-MDC16C6E5	WH-MDC09C3E8	WH-MDC12C9E8	WH-MDC14C9E8
Heating capacity at +7°C	kW	12,00	14,00	16,00	9,00	12,00
COP at +7°C <sup>1)</sup>		4,67	4,50	4,23	4,74	4,67
Heating capacity at +2°C	kW	11,40	12,40	13,00	9,00	11,40
COP at +2°C <sup>1)</sup>		3,41	3,32	3,25	3,53	3,41
Heating capacity at -7°C	kW	10,00	10,70	11,40	9,00	10,00
COP at -7°C <sup>1)</sup>		2,70	2,68	2,65	2,81	2,70
Cooling capacity at 35°C	kW	10,00	11,50	12,20	7,00	10,00
EER at 35°C (cooling water at 7°C) <sup>1)</sup>		2,78	2,61	2,54	3,11	2,78
Sound pressure level	dB(A)	50	51	53	49	50
Dimensions H x W x D	mm	1.410 x 1.283 x 320	1.410 x 1.283 x 320	1.410 x 1.283 x 320	1.410 x 1.283 x 320	1.410 x 1.283 x 320
Weight	kg	153	153	153	157	157
Pump	No. of Speed	3	3	3	3	3
Input power (Max.)	W	190	190	190	190	190
Operation range	Outdoor ambient	°C	-20 to 35	-20 to 35	-20 to 35	-20 to 35

TANKS	Stainless Steel Tank		Enamelled Tank		Enamelled high efficiency Tank		Enamelled 2 coils Tank (for bivalent Solar + HP)		
Model	WH-TD20E3E5	WH-TD30E3E5-1*	PAW-TE20E3STD*	PAW-TE30E3STD*	PAW-TE50E3STD*	PAW-TE20E3H1*	PAW-TE30E3H1*	PAW-TE30C2E3STD*	
Water volume	L	200	300	190	290	440	200	288	287
Maximum water temperature	°C	75	75	95	95	95	95	95	95
Dimensions Height / Diameter	mm	1.150 / 580	1.600 / 580	1.432 / 540	1.794 / 600	1.921 / 700	1.804 / 600	1.294 / 700	1.294 / 700
Weight	kg	49	65	65	85	222	78	139	145
Electric heater	kW	3	3	3	3	3	3	3	3
Power supply	V	230	230	230	230	230	230	230	230
Material inside tank		Stainless steel	Stainless steel	Enamelled	Enamelled	Enamelled	Enamelled	Enamelled	Enamelled
Exchange surface	m <sup>2</sup>	1,4	1,8	1,90	2,55	6,20	2,25	3,20	2,4 (for HP) +1,1 (for solar or boiler)
Energy loss at 65°C <sup>1)</sup>	kWh/24h	1,9	2,3	1,6	1,8	2,4	1,2	1,8	2,7
3 Way valve included	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
20 m temperature sensor cable included	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Heat up time	Valuation	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★
Energy losses	Valuation	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★
Efficiency of the tank	Valuation	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★
Warranty		10 years	10 years	7 years	7 years	7 years	7 years	7 years	7 years
Maintenance required		No	No	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly

1) Insulated tested under EN12897. // \* Available from March 2014.



AQUAREA TANK, TANKS AND BUFFER TANK IN ONE!	
Tanks and buffer tank in one!	Standard Sanitary PAW-TD20B8E3-MDS
Water volume	L 185 (for DHW tank) / 80 (for buffer tank)
Maximum water temperature	°C 100
Dimension H x W x D	mm 1.810 x 600 x 632
Weight	kg 150
Electric heater	kW 3
Power supply	V 230 - 2p
Material inside tank	Stainless steel
Exchange surface	m <sup>2</sup> 2,3
Energy loss at 65°C <sup>1)</sup>	kWh/24h 1,3
A class pump	Number of speed
Pressure drop (Min / Max)	kPa 5 / 6
Input power (Min / Max)	W 3 / 45
3 Way valve included	Yes
Safety thermostat with contact for failure part of	Yes
E-Heating	★★★★
Location of the electrical heater	Mid
Electrical backup heater on the buffer tank	Optional

**Internet Control Ready**

Internet Control is a next generation system providing a user-friendly remote control of air conditioning or heat pump units from everywhere, using a simple Android or iOS smartphone, tablet or PC via internet.

**5,08 COP high efficiency**

AQUAREA HIGH PERFORMANCE

Exceptional Seasonal Heating Efficiency based on the new ErP regulation. Higher the SCOP ratings mean greater efficiency. Save all the year while heating!

**High efficiency heating**

INVERTER+

Inverter+ System. The A Inverter+ system provides energy savings of up to 30% compared to non Inverter models. Both you, and nature, wins!

**Environmentally friendly refrigerant**

R410A

Refrigerant R410A / R407C. R410A / R407C offers optimal performance and involves no environmental cost since it does not harm the ozone layer.

**Down to -20°C in heating mode**

OUTDOOR TEMPERATURE

Up to -20°C in Heating Mode. The Heat Pumps works in heat pump mode with an outdoor temperature as low as -20°C.

**Boiler connection**

RETROFIT

Renovation. Our Aquarea heat pumps can be connected to an existing or new boiler for optimum comfort even at very low outdoor temperatures.

**Solar panels connection**

SOLAR KIT

Solar Kit. For even greater efficiency, our Aquarea heat pumps can be connected to photovoltaic solar panels with an optional kit.

**Domestic hot water**

DHW

DHW With Aquarea you can also heat your domestic hot water at a very low cost with the optional hot water cylinder.

**Easy control by BMS**

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 year compressor warranty**

5 Years Warranty. We guarantee the compressors in the entire range for five years.

# 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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heatingandcoolingsystems

## КЛИМА

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