

AQUAREA G GENERATION

HIGH PERFORMANCE

MONO-BLOC SINGLE PHASE

HEATING AND COOLING - MDC



The Aquarea MDC 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 even better heating and cooling control and management.

Whatever the weather, Aquarea can work even at -20°C. The Mono-Bloc is easy to install in new and existing residential properties.

Technical focus

- Efficient control of room temperature based on the outdoor temperature, indoor temperature using the Aquarea Manager.
- Optional Smartphone control
- Range from 5 to 16kW, Single Phase
- Maximum hydraulic module output temperature: 55°C
- Works at temperatures as low as -20°C
- Cooling temperature range 5 ~ 20°C
- Plug and play system (WH-MDC05F3E5)

			Single Phase Heating and Cooling				
Outdoor Unit			WH-MDC05F3E5	WH-MDC06G3E5	WH-MDC09G3E5	WH-MDC12G6E5	WH-MDC16G6E5
Heating capacity at +7°C (heating water at 35°C)		kW	5.00	6.00	9.00	12.00	16.00
COP at +7°C (heating water at 35°C)		W/W	5.18	4.46	4.15	4.74	4.28
Heating capacity at +2°C (heating water at 35°C)		kW	4.80	5.00	7.45	11.40	13.00
COP at +2°C (heating water at 35°C)		W/W	3.75	3.45	3.14	3.44	3.28
Heating capacity at -7°C (heating water at 35°C)		kW	4.50	5.15	7.70	10.00	11.40
COP at -7°C (heating water at 35°C)		W/W	2.98	2.68	2.12	2.73	2.68
Cooling capacity at 35°C (cooling water at 7°C)		kW	4.50	5.50	7.00	10.00	12.20
EER at 35°C (cooling water at 7°C)		W/W	3.33	2.74	2.44	2.81	2.56
Energy Efficiency Class at 35°C			A++				
Energy Efficiency Class at 55°C			A++				
Sound pressure level	Heating / Cooling	dB(A)	49 / 47		51 / 49	52 / 50	55 / 54
Sound power level	Heating / Cooling	dB	65 / 65		69 / 67	69 / 68	72 / 72
Dimensions	H x W x D	mm	865 x 1,283 x 320			1,410 x 1,283 x 320	1,410 x 1,283 x 320
Weight		kg	107	112		147	
Refrigerant (R410A)		kg	1.42	1.45		2.10	
Water pipe connector			R 1 ¼			R 1 ¼	
Pump	Number of speeds		7				
	Input power (Min / Max)	W	34 / 96	36 / 100	39 / 108	34 / 110	38 / 120
Heating water flow (ΔT=5 K, 35°C)		l/min	14.3	17.2	25.8	34.4	45.9
Capacity of integrated electric heater		kW	3			6	
Input Power	Heating	kW	0.985	1.34	2.17	2.53	3.74
	Cooling	kW	1.35	2.01	2.87	3.56	4.76
Running and Starting current	Heating	A	4.5	6.1	9.9	11.7	17.3
	Cooling	A	6.1	9.3	13.0	16.5	22.0
Current 1		A	19.5	20.5	22.9	24.0	26.0
Current 2		A	13.0	13.0	13.0	26.0	26.0
Recommended Fuse		A	30 / 15		30 / 16	30 / 30	
Recommended cable size, supply 1 & 2		mm²	3 x 4.0 or 6.0 / 3 x 4.0				
Operation range	Outdoor ambient	°C	-20 ~ +35				
Water outlet	Heating	°C	20 ~ 55				
	Cooling	°C	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

Accessories

CZ-TK1	Temperature sensor for 3rd party tank
PAW-BTANK50L	Buffer tank 50L
PA-AW-WIFI-1TE	Wifi interface

Accessories

PAW-AZW-BIV	Bivalent controller
PAW-FLWMTR-KIT	Connection kit with flow indicator, strain filter and isolation valves
PAW-AZW-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. Authorized service partner or Authorized installer can enable the cooling mode through a special operation via the remote controller on site.



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 G GENERATION T-CAP MONO-BLOC SINGLE PHASE / THREE PHASE HEATING AND COOLING - MXC



The MXC 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, regardless of the outside temperature or the water temperature. The MXC 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 even better heating or cooling control and management.

Technical focus

- Efficient control of room temperature based on the outdoor temperature, indoor temperature using the Aquarea Manager.
- Optional Smartphone control
- Range from 9 to 16 kW, 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

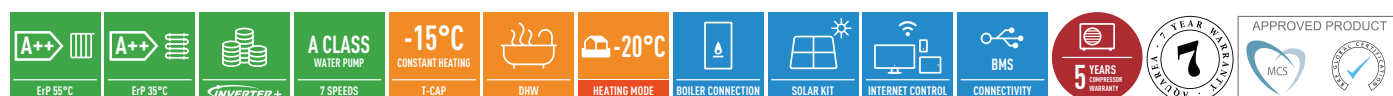
			Single Phase		Three Phase		
Outdoor Unit			WH-MXC09G3E5	WH-MXC12G6E5	WH-MXC09G3E8	WH-MXC12G9E8	WH-MXC16G9E8
Heating capacity at +7°C (heating water at 35°C)		kW	9.00	12.00	9.00	12.00	16.00
COP at +7°C (heating water at 35°C)		W/W	5.07	4.74	4.84	4.74	4.28
Heating capacity at +2°C (heating water at 35°C)		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	2.56
Energy Efficiency Class at 35°C			A++				
Energy Efficiency Class at 55°C			A++				
Sound pressure level	Heating / Cooling	dB(A)	51 / 49	52 / 50	51 / 49	52 / 50	55 / 54
Sound power level	Heating / Cooling	dB	68 / 67	69 / 68	68 / 67	69 / 68	72 / 72
Dimensions	H x W x D	mm	1,410 x 1,283 x 320				
Weight		kg	148		155		168
Refrigerant (R410A)		kg	2.30		2.55		
Water pipe connector			R 1 1/4				
Pump	Number of speeds		7				
	Input power (Min / Max)	W	32 / 102	34 / 110	32 / 102	34 / 110	38 / 120
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	
Input Power	Heating	kW	1.86	2.53	1.86	2.53	3.74
	Cooling	kW	2.21	3.56	2.21	3.56	4.76
Running and Starting current	Heating	A	8.6	11.7	2.8	3.8	5.7
	Cooling	A	10.2	16.5	3.4	5.3	7.2
Current 1		A	25.0	29.0	14.7	11.9	15.5
Current 2		A	13.0	26.0	13.0	13.0	13.0
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		
Operation range	Outdoor ambient	°C	-20 ~ +35				
Water outlet	Heating	°C	25 ~ 55				
	Cooling	°C	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

Accessories	
CZ-TK1	Temperature sensor for 3rd party tank
PAW-BTANK50L	Buffer tank 50L
PA-AW-WIFI-1TE	Wifi interface

Accessories	
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.



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 G GENERATION HT

MONO-BLOC SINGLE PHASE / THREE PHASE

HEATING ONLY - MHF



Aquarea HT is able to deliver 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 most suited as it provides output water temperatures of 65°C even at -20°C.

Technical focus

- 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

			Single Phase		Three Phase
Outdoor Unit			WH-MHF09G3E5	WH-MHF12G6E5	WH-MHF12G9E8
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	5.28	4.83	4.46
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++		
Sound pressure level		dB(A)	51	52	
Sound power level		dB	68	69	
Dimensions		H x W x D	1,410 x 1,283 x 320		
Weight		kg	151	162	
Refrigerant (R407C)		kg	1.92	2.22	
Water pipe connector			R 1 1/4		
Pump		Number of speeds	7		
		Input power (Min / Max)	—		
Heating water flow (ΔT=5 K, 35°C)		l/min	25.8	34.4	
Capacity of integrated electric heater		kW	3	6	9
Input Power		kW	1.94	2.69	
Running and Starting current		A	9.3	12.8	4.1
Current 1		A	28.5	29.0	10.8
Current 2		A	13.0	26.0	13.0
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 / 5 x 1.5
Operation range		Outdoor ambient	-20 ~ +35		
Water outlet		°C	25 ~ 65		

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

Accessories

CZ-TK1	Temperature sensor for 3rd party tank
PAW-BTANK50L	Buffer tank 50L
PA-AW-WIFI-1TE	Wifi interface

Accessories

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.



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.