

AQUAREA T-CAP



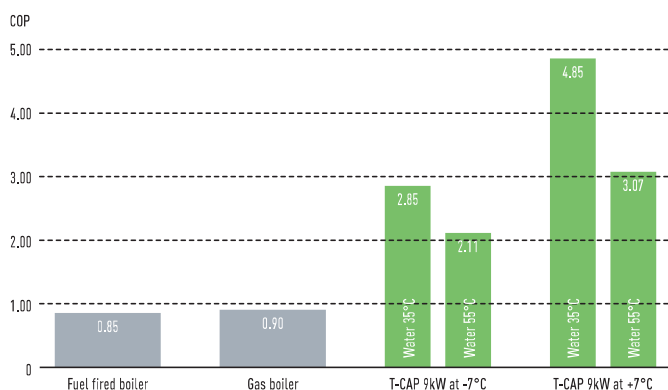
For retrofit and new builds, install the T-CAP heat pump where the kW output capacity is demanding.

Ensure the heating capacity is maintained even at low temperatures

The whole T-CAP line-up can replace old gas or oil boilers, and in a new application with underfloor heating, radiators or even fan-coil heaters, the whole T-CAP line-up is an ideal replacement for old gas/oil boilers. All Aquarea heat pumps can also be connected to a solar thermal or PV system in order to increase efficiency and minimise the impact on the ecosystem.

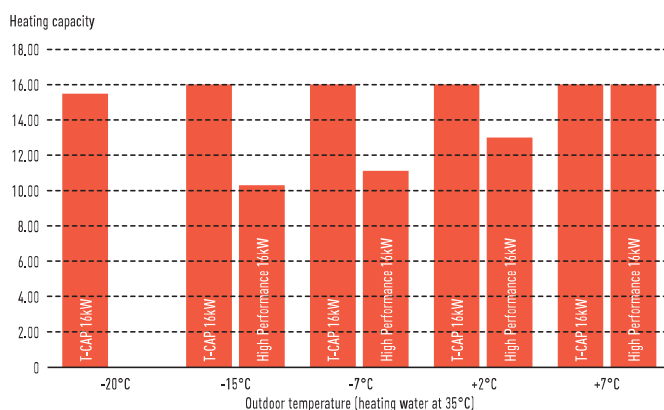
Higher efficiency compared to other heating systems

Panasonic Heat Pumps have a maximum COP of 4.85 at +7°C which makes them much more efficient than others heating systems.



More Energy saving

T-CAP is also able to provide extremely high efficiencies, whatever the outside or the water temperature.



Key points of the line-up

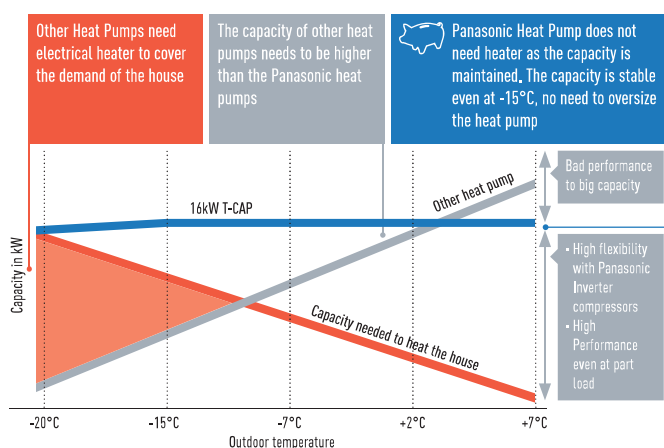
- Ability to maintain the heat pump kW¹⁾ output capacity until -20°C outdoor temperature without the help of an electrical booster heater
- High heating capacity even at low ambient temperatures
- Additional functions: Auto and holiday mode, boost, drying concrete and power consumption display

- Backup heater capacity can be selected depending on the model (3/6/9kW)
- Cooling mode activation possible via software²⁾

1) At 35°C flow. 2) This activation can only be done by service partner or installer.

With a Panasonic heat pump, there is no need to oversize in order to reach the required capacity at low temperatures

- Panasonic's unique software and inverter technology for low consumption houses, allows the heat pump to produce heating water at 35°C. When only a little heating is required due to warmer outside air temperature
- All Aquarea heat pump's have a 10L expansion vessel fitted internally
- Aquarea heat pump's has an inverter compressor which can regulate the output capacity depending on demand
- Twin dice system included within the system (Twin fan outdoor unit)
- 3/6/9kW electrical heater is included in the heat pump (depending on unit)
- Panasonic heat pumps can work in outdoor temperatures as low as -28°C and guarantee the capacity without backup heating down to -20°C¹⁾
- Panasonic heat pumps are very quiet and have a noise reduction setting for night mode. See noise calculator on www.panasonicproclub.com

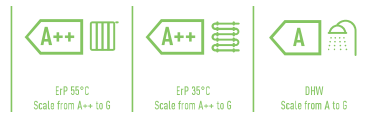


1) 35°C flow temperature.

Aquarea High Performance All in One H Generation Single Phase. Heating and Cooling • R410A Refrigerant



GOOD DESIGN AWARD 2017



CZ-TAW1
Cloud connection. For user control and installer remote maintenance.

Single Phase

Kit		KIT-ADC03HE5-UK	KIT-ADC05HE5-UK	KIT-ADC07HE5-UK	KIT-ADC09HE5-UK
Heating capacity / COP (A +7°C, W 35°C)	kW / COP	3.20/5.00	5.00/4.63	7.00/4.46	9.00/4.13
Heating capacity / COP (A +7°C, W 55°C)	kW / COP	3.20/2.67	5.00/2.65	6.80/2.63	8.90/2.41
Heating capacity / COP (A +2°C, W 35°C)	kW / COP	3.20/3.56	4.20/3.11	6.55/3.34	6.70/3.13
Heating capacity / COP (A +2°C, W 55°C)	kW / COP	3.20/2.15	4.10/1.98	6.00/1.99	6.00/1.99
Heating capacity / COP (A -7°C, W 35°C)	kW / COP	3.20/2.69	4.20/2.59	5.15/2.68	5.90/2.52
Heating capacity / COP (A -7°C, W 55°C)	kW / COP	3.20/1.72	3.55/1.71	4.80/1.89	5.80/1.88
Cooling capacity / EER (A 35°C, W 7°C)	kW / EER	3.20/3.08	4.50/2.67	6.00/2.63	7.00/2.43
Cooling capacity / EER (A 35°C, W 18°C)	kW / EER	3.30/3.75	5.00/3.76	6.00/3.57	7.00/3.26
Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C)	ETA %	195/130	195/130	190/130	190/130
	SCOP	4.95/3.33	4.95/3.33	4.83/3.33	4.83/3.33
Energy Class Heating Average Climate (W35°C / W55°C) ¹⁾	A++ to G	A++/A++	A++/A++	A++/A++	A++/A++
Energy Class Heating Average Climate (W35°C / W55°C) ¹⁾	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C)	ETA %	244/163	244/163	225/160	225/160
	SCOP	6.18/4.15	6.18/4.15	5.70/4.08	5.70/4.08
Energy Class Heating Warm Climate (W35°C / W55°C)	A++ to G	A++/A++	A++/A++	A++/A++	A++/A++
Energy Class Heating Warm Climate (W35°C / W55°C)	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C)	ETA %	150/103	150/103	160/115	160/115
	SCOP	3.83/2.65	3.83/2.65	4.08/2.95	4.08/2.95
Energy Class Heating Cold Climate (W35°C / W55°C)	A++ to G	A++/A+	A++/A+	A++/A+	A++/A+
Energy Class Heating Cold Climate (W35°C / W55°C)	A+++ to D	A+++/A+	A+++/A+	A+++/A+	A+++/A+
Indoor unit 1 zone hydrokit		WH-ADC0309H3E5UK	WH-ADC0309H3E5UK	WH-ADC0309H3E5UK	WH-ADC0309H3E5UK
Sound pressure	Heat / Cool	dB(A)		28/28	28/28
Dimension / Net weight	H x W x D	mm / kg		1800 x 598 x 717 / 124	1800 x 598 x 717 / 124
Water pipe connector		Inch		R1	R1
A class pump	Number of speeds	Variable Speed		Variable Speed	Variable Speed
	Input power (Min/Max)	W		30/120	30/120
Heating water flow (ΔT=5 K, 35°C)		l/min		9.2	14.3
Capacity of integrated electric heater		kW		3	3
Recommended fuse		A		15/15	30/15
Recommended cable size, supply 1 & 2		mm ²		3 x 1.5 / 3 x 1.5	3 x 2.5 / 3 x 1.5
Water volume		l		185	185
Maximum water temperature		°C		65	65
Material inside tank		Stainless steel		Stainless steel	Stainless steel
Tapping profile according EN16147		L		L	L
DHW Tank ERP Average climate efficiency rating ²⁾	A to G / A+ to F	A/A+		A/A+	A/A+
DHW Tank ERP Warm climate efficiency rating ²⁾	A to G / A+ to F	A/A+		A/A+	A/A+
DHW Tank ERP Cold climate efficiency rating ²⁾	A to G / A+ to F	A/A		A/A	A/A
DHW Tank ERP Average climate ETA / SCOP	ETA % / SCOP	120/3.00		113/2.83	113/2.83
DHW Tank ERP Warm climate ETA / SCOP	ETA % / SCOP	147/3.68		132/3.30	132/3.30
DHW Tank ERP Cold climate ETA / SCOP	ETA % / SCOP	94/2.35		86/2.15	86/1.88
Outdoor unit		WH-UD03HE5-1	WH-UD05HE5-1	WH-UD07HE5-1	WH-UD09HE5-1
Sound power full load	Heat / Cool	dB		64/66	68/66
Dimension / Net weight	H x W x D	mm / kg		622 x 824 x 298 / 39	795 x 900 x 320 / 66
Refrigerant (R410A) / CO ₂ Eq.		kg / T		1.20/2.506	1.45/3.028
Pipe diameter	Liquid / Gas	Inch (mm)		1/4 (6.35) / 1/2 (12.70)	1/4 (6.35) / 5/8 (15.88)
Pipe length range / Elevation difference (in/out)		m / m		3 - 15/5	3 - 40/30
Pipe length for additional gas / Additional gas amount		m / g/m		10/20	10/30
Operation range	Outdoor ambient	°C		-20 ~ +35	-20 ~ +35
Water outlet	Heat / Cool	°C		20 ~ 55/5 ~ 20	20 ~ 55/5 ~ 20
3rd Party tested Sound power at Quiet Mode 3 ³⁾		dB		52	58

Accessories	
PAW-ADC-PREKIT-H	Pre installation kit for piping
PAW-ADC-CV150	Decorative magnetic side cover
CZ-NS4P	Additional functions PCB

Accessories	
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
PAW-A2W-RTWIRED	Room thermostat

EER and COP calculation is based in accordance to EN14511. 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). Insulated tested under EN12897.

1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) Scale from A to G and from A+ to F from 26th September 2019. 3) Third party tested sound power at Quiet mode 3 (A +7°C, W 55°C).

This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

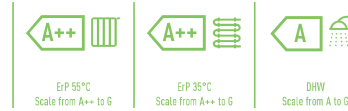


INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc H Generation awarded with the prestigious Good Design Award 2017.
* MCS APPROVED PRODUCT: Not all products are currently certified. Please visit: <http://www.microgenerationcertification.org/consumers/product-search>.

Aquarea High Performance All in One H Generation Single Phase. Heating and Cooling • R410A Refrigerant



**GOOD
DESIGN
AWARD
2017**



CZ-TAW1
Cloud connection. For
user control and
installer remote
maintenance.

				Single Phase	
Kit				KIT-ADC12HE5 -UK	KIT-ADC16HE5 -UK
Heating capacity / COP [A +7°C, W 35°C]	kW / COP			12.00/4.74	16.00/4.28
Heating capacity / COP [A +7°C, W 55°C]	kW / COP			12.00/2.88	14.50/2.68
Heating capacity / COP [A +2°C, W 35°C]	kW / COP			11.40/3.44	13.00/3.28
Heating capacity / COP [A +2°C, W 55°C]	kW / COP			9.10/2.20	9.80/2.17
Heating capacity / COP [A -7°C, W 35°C]	kW / COP			10.00/2.73	11.40/2.57
Heating capacity / COP [A -7°C, W 55°C]	kW / COP			8.20/1.92	9.00/1.82
Cooling capacity / EER [A 35°C, W 7°C]	kW / EER			10.00/2.81	12.20/2.56
Cooling capacity / EER [A 35°C, W 18°C]	kW / EER			10.00/4.17	12.20/4.12
Seasonal energy efficiency - Heating Average Climate [W35°C / W55°C]	ETA %			190/134	190/130
	SCOP			4.83/3.43	4.83/3.33
Energy Class Heating Average Climate [W35°C / W55°C] ¹⁾	A+++ to G			A++/A++	A++/A++
Energy Class Heating Average Climate [W35°C / W55°C] ¹⁾	A+++ to D			A+++/A++	A+++/A++
Seasonal energy efficiency - Heating Warm Climate [W35°C / W55°C]	ETA %			245/159	245/169
	SCOP			6.20/4.05	6.20/4.30
Energy Class Heating Warm Climate [W35°C / W55°C]	A+++ to G			A++/A++	A++/A++
Energy Class Heating Warm Climate [W35°C / W55°C]	A+++ to D			A+++/A+++	A+++/A+++
Seasonal energy efficiency - Heating Cold Climate [W35°C / W55°C]	ETA %			168/121	168/121
	SCOP			4.28/3.10	4.28/3.10
Energy Class Heating Cold Climate [W35°C / W55°C]	A+++ to G			A++/A+	A++/A+
Energy Class Heating Cold Climate [W35°C / W55°C]	A+++ to D			A++/A+	A++/A+
Indoor unit				WH-ADC1216H6E5UK	WH-ADC1216H6E5UK
Sound pressure	Heat / Cool	dB(A)		33/33	33/33
Dimension / Net weight	HxWxD	mm / kg		1800x598x717/124	1800x598x717/124
Water pipe connector		Inch		R1	R1
A class pump	Number of speeds			Variable Speed	Variable Speed
	Input power [Min/Max]	W		36/152	36/152
Heating water flow [ΔT=5 K, 35°C]		l/min		34.4	45.9
Capacity of integrated electric heater		kW		6	6
Recommended fuse		A		30/30	30/30
Recommended cable size, supply 1 & 2		mm ²		3x4.0/3x4.0	3x4.0/3x4.0
Water volume		l		185	185
Maximum water temperature		°C		65	65
Material inside tank				Stainless steel	Stainless steel
Tapping profile according EN16147				L	L
DHW Tank ERP Average climate efficiency rating ²⁾	A to G / A+ to F			A/A	A/A
DHW Tank ERP Warm climate efficiency rating ²⁾	A to G / A+ to F			A/A	A/A
DHW Tank ERP Cold climate efficiency rating ²⁾	A to G / A+ to F			A/A	B/B
DHW Tank ERP Average climate ETA / SCOP	ETA % / SCOP			95/2.38	91/2.28
DHW Tank ERP Warm climate ETA / SCOP	ETA % / SCOP			110/2.75	107/2.68
DHW Tank ERP Cold climate ETA / SCOP	ETA % / SCOP			75/1.80	72/1.88
Outdoor unit				WH-UD12HE5	WH-UD16HE5
Sound power full load	Heat / Cool	dB		69/68	72/72
Dimension / Net weight	HxWxD	mm / kg		1340x900x320/101	1340x900x320/101
Refrigerant [R410A] / CO ₂ Eq.		kg / T		2.55/5.324	2.55/5.324
Pipe diameter	Liquid / Gas	Inch (mm)		3/8(9.52)/5/8(15.88)	3/8(9.52)/5/8(15.88)
Pipe length range / Elevation difference (in/out)		m / m		3 - 50/30	3 - 50/30
Pipe length for additional gas / Additional gas amount		m / g/m		10/50	10/50
Operation range	Outdoor ambient	°C		-20 ~ +35	-20 ~ +35
Water outlet	Heat / Cool	°C		20 ~ 55/5 ~ 20	20 ~ 55/5 ~ 20
3rd Party tested Sound power at Quiet Mode ³⁾		dB		65	65
Accessories				Accessories	
PAW-ADC-PREKIT-H	Pre installation kit for piping			CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
PAW-ADC-CV150	Decorative magnetic side cover			PAW-A2W-RTWIRED	Room thermostat
CZ-NS4P	Additional functions PCB				

EER and COP calculation is based on EN14511. 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). Insulated tested under EN12897.

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