

# NEW AQUAREA T-CAP

# Panasonic

IDEAL FOR  
RETROFIT



## New T-CAP for extremely low temperatures areas

From 9 to 16 kW

AQUAREA

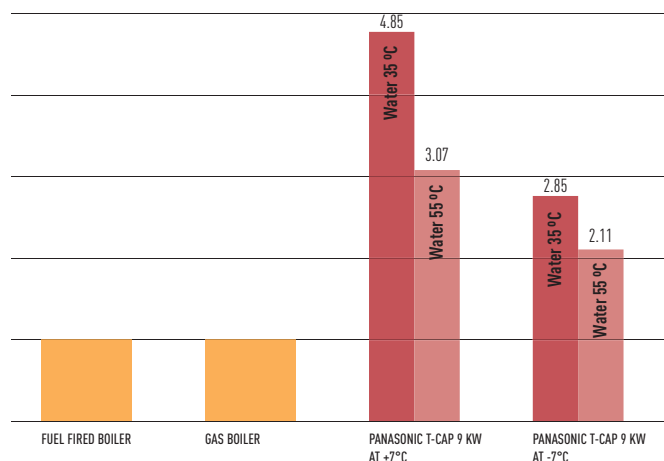


The whole T-CAP line-up is design for extremely cold areas in applications with under floor heating, low temperature radiators or even fan-coil heaters. This range can also be connected to a solar kit in order to increase efficiency and minimize the impact on the ecosystem. Finally, it is possible to connect a thermostat for even better heating or cooling control and management.

- T-CAP stands for Total Capacity. This line-up is able to maintain the same nominal capacity even at -15°C without the help of an electrical booster heater.
- High heating capacity even at low ambient temperatures.
- Maintains capacity of 16 kW until -15°C outdoor temperature. Adding many new functions: Auto mode, Holiday mode, power consumption display.

### Best efficiency compared to other heating Efficiency systems

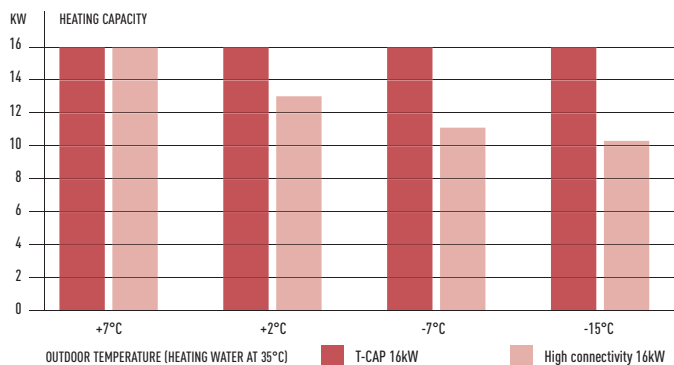
Panasonic heat pumps have a maximum COP of 4.85 at +7 °C which makes them much more efficient than fossil fuel fired boilers, gas boilers and electrical heaters.



### Aquarea T-CAP maintains the nominal capacity until -15°C

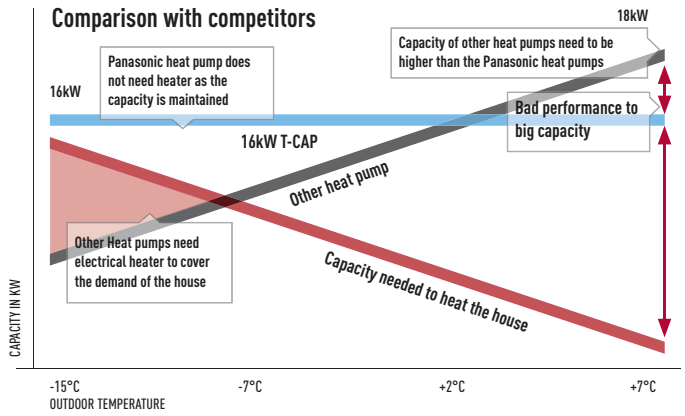
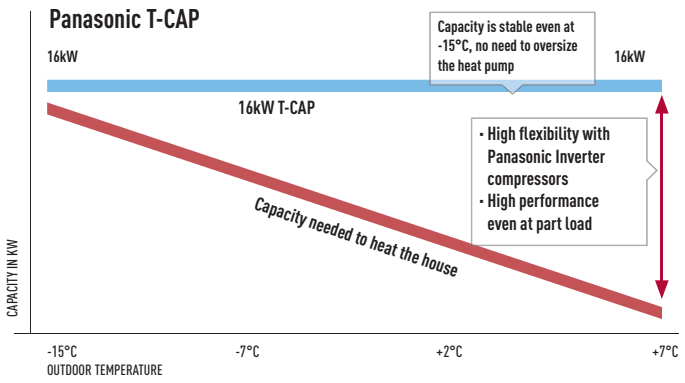
The T-CAP line-up is able to maintain the same nominal capacity even at -15°C without the help of an electrical booster heater. T-CAP is also able to provide extremely high efficiencies, whatever the outside or the water temperature. Panasonic has now extended the range with the new three phase 16kW.

- Backup heater capacity can be selected (3/6/9kW) • Cooling mode activation possible by software\*
- \* This activation can only be done by service partner or installer



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

- Dedicated software for low consumption houses which allows the heat pump to produce hot water at 20°C. This is needed during the seasons, when a little heating is required
- No need for an additional expansion vessel, as the unit already has a 6l expansion vessel
- No buffer tank required as the Panasonic heat pump has an inverter compressor which can regulate the capacity. (Please check on the service manual the minimum volume of water needed on the circuit)
- 3kW electrical heater is included on the heat pump
- Panasonic heat pumps can work in outdoor temperatures as low as -20°C and guarantee the capacity without backup heating down to -15°C
- Panasonic heat pumps are very quiet and have a night mode program for even lower noise. See noise calculator on [www.panasonicproclub.com](http://www.panasonicproclub.com)



Kit	Single Phase (Power to indoor)		Three Phase (Power to indoor)		
	KIT-WXC09F3E5	KIT-WXC12F6E5	KIT-WXC09F3E8	KIT-WXC12F9E8	KIT-WXC16F9E8
Indoor unit	WH-SXC09F3E5	WH-SXC12F6E5	WH-SXC09F3E8	WH-SXC12F9E8	WH-SXC16F9E8
Outdoor unit	WH-UX09FE5	WH-UX12FE5	WH-UX09FE8	WH-UX12FE8	WH-UX16FE8
Heating capacity at +7°C	9,00	12,00	9,00	12,00	16,00
COP at +7°C (heating water at 35°C)	4,84	4,74	4,84	4,74	4,28
Heating capacity at +2°C	9,00	12,00	9,00	12,00	16,00
COP at +2°C (heating water at 35°C)	3,59	3,44	3,59	3,44	3,10
Heating capacity at -7°C	9,00	12,00	9,00	12,00	16,00
COP at -7°C (heating water at 35°C)	2,85	2,72	2,85	2,72	2,49
Cooling capacity at 35°C	7,00	10,00	7,00	10,00	12,20
EER at 35°C (cooling water at 7°C)	3,17	2,81	3,17	2,81	2,57
Dimensions (Indoor) H x W x D	mm / kg 892 x 502 x 353 / 44		mm / kg 892 x 502 x 353 / 45		
Dimensions (Outdoor) H x W x D	mm / kg 1.340 x 900 x 320 / 107		mm / kg 1.340 x 900 x 320 / 109		
Sound pressure level	dB(A) 49		dB(A) 50		
Operation range	Outdoor ambient °C -20 to 35		Outdoor ambient °C -20 to 35		

Outdoor unit Heating Only	Single Phase		Three Phase	
	WH-MXF09D3E5	WH-MXF12D4E5	WH-MXF09D3E8	WH-MXF12D9E8
Outdoor unit Heating and Cooling	WH-MXC09D3E5	WH-MXC12D4E5	WH-MXC09D3E8	WH-MXC12D9E8
Heating capacity at +7°C	9,00	12,00	9,00	12,00
COP at +7°C (heating water at 35°C)	4,74	4,67	4,74	4,67
Heating capacity at +2°C	9,00	12,00	9,00	12,00
COP at +2°C (heating water at 35°C)	3,53	3,40	3,53	3,40
Heating capacity at -7°C	9,00	12,00	9,00	12,00
COP at -7°C (heating water at 35°C)	2,81	2,70	2,81	2,70
Cooling capacity at 35°C	7,00	10,00	7,00	10,00
EER at 35°C (cooling water at 7°C)	3,11	2,78	3,11	2,78
Sound pressure level	dB(A) 49		dB(A) 50	
Dimensions H x W x D	mm 14.10 x 1.283 x 320		mm 1.410 x 1.283 x 320	
Weight	kg 155		kg 158	
Pump	No. of Speed 3		No. of Speed 3	
Operation range	Input power (Max.) W 190		Input power (Max.) W 190	
	Outdoor ambient °C -20 to 35		Outdoor ambient °C -20 to 35	

TANKS	Stainless Steel Tank		Enamelled Tank		Enamelled high efficiency Tank		Enamelled 2 coils Tank (for Solar + HP)	
	WH-TD20E3E5	WH-TD30E3E5-1*	PAW-TE20E3STD*	PAW-TE30E3STD*	PAW-TE50E3STD*	PAW-TE20E3HI*	PAW-TE30E3HI*	PAW-TE30E3E3STD*
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	m² 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°C¹	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
20 m temperature sensor cable included	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



## AQUAREA TANK

**AQUAREA TANK. TANKS AND BUFFER TANK IN ONE!**

Tanks and buffer tank in one!		Standard Sanitary
Model	PAW-TD20BE3-NDS	185 (for DHW tank) / 80 (for buffer tank)
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	m²	2,3
Energy loss at 65°C¹	kWh/24h	1,3
A class pump	Number of speed	Stepless (800-4250 rpm)
	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		Mid
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.

**100% capacity at -15°C**

Always enough capacity to heat the house without help from an external boiler – even at extremely low temperatures. Always has high efficiency and high heating capacity even at extremely low temperatures.

**High efficiency heating**

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**

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**

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**

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

**Domestic hot water**

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**

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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