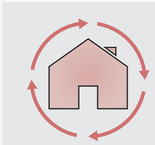
NEW 16KW T-CAP. HIGH CAPACITY IMPROVEMENT AT LOW AMBIENT & HIGH EFFICIENCY

Enhance larger capacity (16kW)
More Energy saving with A Class pump.

Adding new functions
Auto mode, Holiday mode, Displays power consumption, New de-ice control, Concrete Dry mode, Lock cooling mode and Pump speed control.

Applications



For retrofit houses

Replace easily expensive gas or oil boilers for high efficient 16kW T-CAP or manage bivalent installations (heat pump and existing gas or oil boiler) with the Heat Pump Manager.
Further information on: www.panasonicproclub.com

For commercial applications

Wide range of capacities now covered - from 9kW to 45kW with the Heat Pump Manager. Also you are able to connect up to three heat pumps on cascade with the Heat Pump Manager.

For heating and cooling mode

The 16kW model is able to heat the water at 55°C and is highly efficient even when the temperature is as low as -20°C. Cooling operation can be activated on the remote control to cool water up to +5°C.

For heating and sanitary hot water

Efficient domestic hot water tanks allow large storage for high consumption of hot water (for example Jacuzzi or bathtub). All our tanks have an anti-legionella protection with a backup heater of 3 kW.

ACCESSORIES

Radiators

Panasonic has developed a new radiator line up working with water at 35°C in order to:
- Make the installation easier, with 2 zones kits and additional pumps
- Increase the efficiency by 32% over standard radiators working at 45°C
- Makes cooling operation possible to increase comfort

A selection tool is available on www.panasonicproclub.com

AQUAREA AIR RADIATORS. PAW-AAIR-900 / PAW-AAIR-700 / PAW-AAIR-200

32% MORE EFFICIENT THAN STANDARD RADIATORS

Heating, cooling and dehumidification functions (drain pipe for cooling and dehumidification is needed)

Operating on heating mode with radiator using only radiant effect

Operating on heating mode with radiant effect and fan mode

Operating on cooling mode with fan

Tanks

Panasonic has a large line up of tanks with high efficiency and high insulation allowing in certain cases for the tank to be installed in a non heated part of the house (such as garage, cellar, etc...) without affecting the efficiency of the house.

		STANDARD SANITARY		HIGH EFFICIENCY		SUPER HIGH EFFICIENCY		
		WH-TD20E3E5	WH-TD30E3E5-1	HR 200	HR 300	HRS 200	HRS 300	HRS 500
								
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

Control & connectivity

Aquarea Manager
Ready Steady Go. Easy Installation & Easy Configuration.
Ready: Pre-programmed with up to 600 applications/ system diagrams. Steady: At start up - state the number of application/system diagram. Go: The controller starts working according to selected diagram
PAW-HPM1: for 2 zones cascade and bivalent applications.
For more information: www.panasonicproclub.com

Room Thermostats
PAW-A2W-RTWIRED: Wired LCD room thermostat with weekly timer.
PAW-A2W-RTWIRELESS: Wireless LCD room thermostat with weekly timer.

Internet control
Internet Control is a next generation system providing user-friendly remote control of heat pump units from anywhere, using a simple Android or iOS smartphone, tablet or PC via internet.
A simple Installation: Just connect the Internet Control device to the heat pump with the supplied wire and then link it to your WIFI Access point.

Connectivity to Modbus / KNX / EnOcean
Panasonic allows for optimum integration with BMS systems. Panasonic have designed a range of interfaces for Panasonic specifically to provide complete monitoring, control and full functionality of the entire Aquarea line-up from KNX, EnOcean and Modbus installations.

Photovoltaic Solar panels

Heat Pump + HIT Photovoltaic solar panel from Panasonic
Photovoltaic solar panels: the best solution for big savings.
Combining photovoltaic solar panels with your heat pump can help to further reduce your electrical consumption and CO_2 emissions. Additionally, with the unique HIT photovoltaic solar panel technology from Panasonic, you can produce more electricity per square metre, helping you to increase your energy savings still further.

Panasonic®

To find out how Panasonic cares for you, log on to: www.aircon.panasonic.eu

Contact Details:
Telephone: 01344 853182
www.panasonic.co.uk/aircon

Address: Panasonic Air Conditioning
Panasonic House
Willoughby Road
Bracknell
Berkshire
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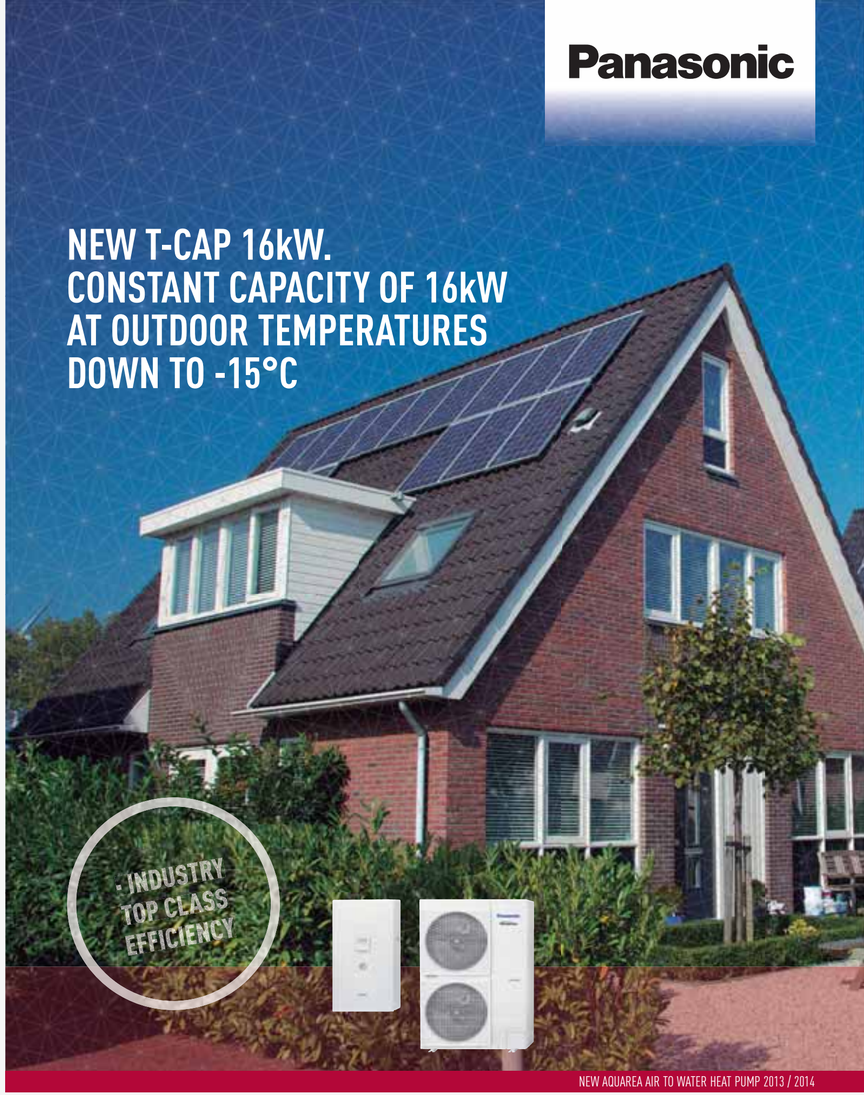
Panasonic

NEW T-CAP 16kW. CONSTANT CAPACITY OF 16kW AT OUTDOOR TEMPERATURES DOWN TO -15°C



NEW AQUAREA AIR TO WATER HEAT PUMP 2013 / 2014

heatingandcoolingsystems

AQUAREA

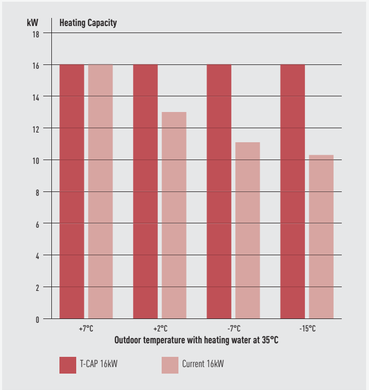
THE NEW T-CAP RANGE HAS EXTENDED WITH THE ADDITION OF THE 16KW PUMP

The new 16kW maintains full capacity of 16kW even at outdoor temperatures down to -15°C.

The whole T-CAP line-up can replace old gas or oil boilers, and in a new application 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.
The 16kW fits perfectly to retrofit houses, as well as to commercial applications to heat and cool the applications and also to provide sanitary hot water.

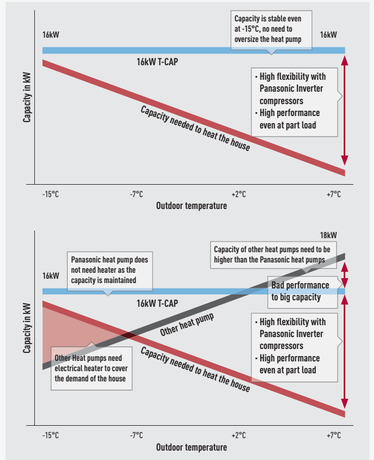
A CLASS PUMP. MORE ENERGY SAVING

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.



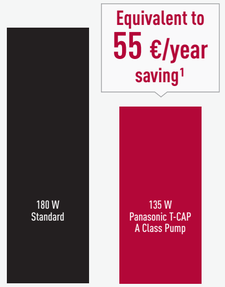
- Backup heater capacity can be selected (3/6/9kW)
- Cooling mode activation possible by software*

* This activation can only be done by service partner or installer

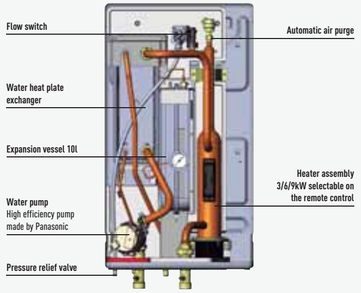


Low power consumption of the pump (only 45 W)
With the new 16kW T-CAP you can save around 55 € per Year[1].

1. Assuming a yearly cost of 228 € for the standard pump, can vary depending on size and consumption.



New indoor unit design
- New A-class pump with 7 speeds
- Expansion vessel of 10L
- Selectable booster heater (3/6/9kW)



NEW 16KW T-CAP. TECHNICAL DATA

SEASONAL EFFICIENCY
PRODUCT READY FOR THE NEW ErP ECODESIGN REQUIREMENTS LOT 1
A class pump

Technical focus
- High efficiency A Class pump
- Maintains 16kW capacity at outdoor temperatures down to -15°C (at heating water temperature of 35°C/45°C)
- Three Phase model
- Works down to -20°C
- Cooling temperature range: 5°C-20°C
- Heating temperature range 25°C-55°C

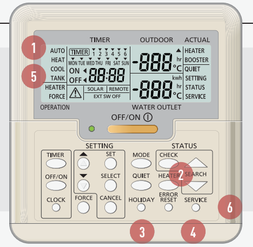
Internet Control Ready – INTERNET CONTROL
100% capacity at -15 °C – AQUAREA T-CAP
High efficiency heating – INVERTER+
Environmentally friendly refrigerant – R410A
Down to -20 °C in heating mode – OUTDOOR TEMPERATURE
Boiler connection – RETROFIT
Solar panels connection – SOLAR KIT
Domestic hot water – DHW
Easy control by BMS – CONNECTIVITY
5 year compressor warranty

INTERNET CONTROL READY: Optional.

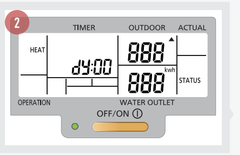
T-CAP 16kW			Three Phase (Power to indoor)
Heating Capacity at +7°C with heating water at 35°C		kW	16.00
COP at +7°C with heating water at 35°C			4.28
Heating Capacity at +2°C with heating water at 35°C		kW	16.00
COP at +2°C with heating water at 35°C			3.07
Heating Capacity at -7°C with heating water at 35°C		kW	16.00
COP at -7°C with heating water at 35°C			2.49
Heating Capacity at -15°C with heating water at 35°C		kW	16.00
COP at -15°C with heating water at 35°C			2.32
Cooling capacity at 35°C with cooling water at 7°C		kW	12.20
EER at 35°C with cooling water at 7°C			2.57
Indoor unit			**WH-SXC16F9E8**
Dimensions / Weight	H x W x D	mm / kg	892 x 502 x 353 / 47
Water pipe connector			R1 1/4
Pump	No. of Speed		7
Heating water flow (ΔT=5 K, 35°C)		l/min	45.9
Capacity of integrated electric heater		kW	9
Input Power		kW	3.74
Starting Current / Maximum Current		A	7.2 / 15.5
Outdoor unit			**WH-UX16FE8**
Sound pressure level		dB(A)	53
Sound power level		dB	70
Dimensions / Weight	H x W x D	mm / kg	1340 x 900 x 320 / 127
Pipe diameter	Liquid / Gas	mm (Inch)	9.52 (3/8) / 15.88 (5/8)
Refrigerant (R410A) / Additional gas amount		kg / g/m	2.90
Pipe length range		m	3 ~ 30
Pipe length for nominal capacity / additional gas		m	7 / 10
I/DBO/D Hight Difference		m	20
Operation range	Outdoor ambient	°C	-20 to 35
Water outlet	Heating / Cooling	°C	25 ~ 55 / 5 ~ 20

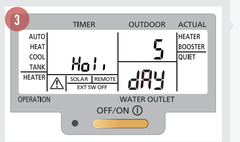
Performance (capacity and COP) determined at 230V only in accordance with EN14511 standard.

NEW FEATURES



New remote control functions





For customer

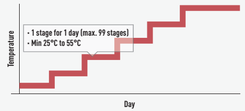
1. Auto Mode
Automatically changes from heating to cooling depending on outdoor temperature.

2. Energy Consumption
Displays the heat pump's energy consumption, split by heating, cooling and domestic hot water, and shows total consumption figure.

3. Holiday Mode
Helps you to reduce heating temperature during holidays.

For installer

4. Floor heating concrete dry mode
Allows to increase temperature of floor heating slowly via software.



5. Heating and Cooling Mode
Authorized service partner or Authorized installer can enable the cooling mode through a special operation via the remote controller on site.

6. Pump with 7 speeds
Pump speed can be selected on the remote control with 7 steps.

7. New de-ice control
Panasonic has developed a new de-icing control system which dramatically reduces the requirement for a back-up heater, increasing the efficiency of the heat pump.

8. Inspection port to compressor terminal
For easier maintenance you are now able to access through a plate to check the compressor terminal.