Panasonic

New Aquarea L Series
Air to water heat pumps | AQUAREA

Panasonic

AQUAREA

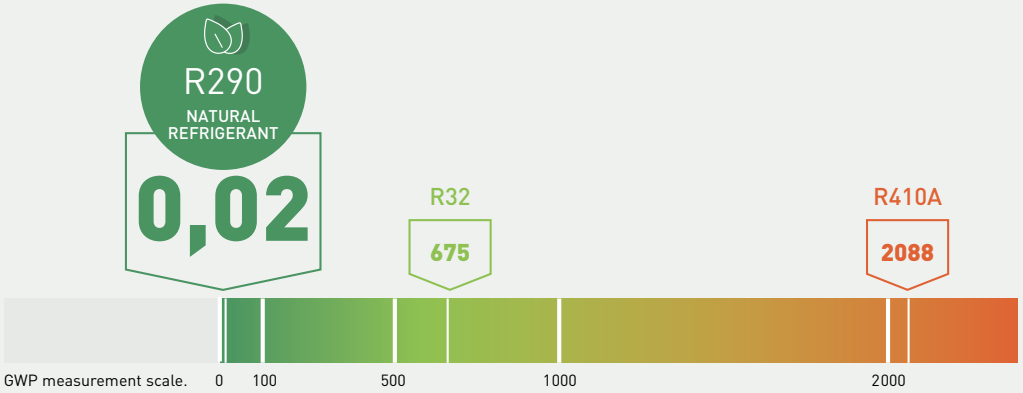
Contributing to a decarbonised society.

Aquarea air to water heat pumps with R290 refrigerant range is a groundbreaking low energy system for heating, cooling and domestic hot water production that delivers outstanding performance, aligning with our vision of a carbon-free society and our GREEN IMPACT plan.

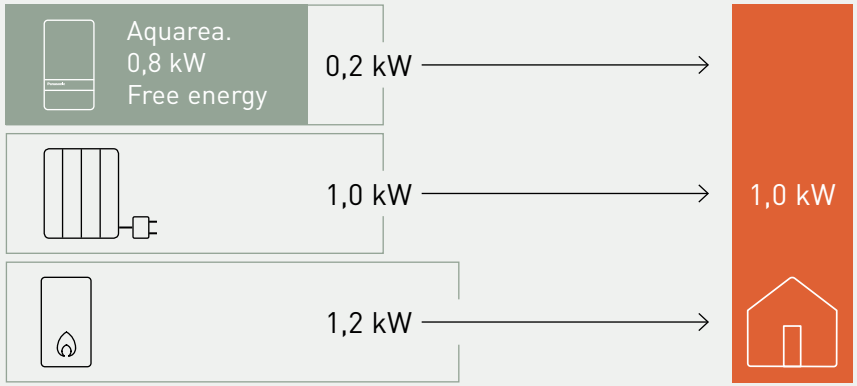
With sustainability at the forefront of its innovations, Panasonic's newest series are engineered with industry leading natural refrigerant R290, which has a low Global Warming Potential (GWP) of just 0,02*, helping reduce CO_2 emissions and environmental impact.

* Based on the Sixth Assessment Report (AR6) adopted by the Intergovernmental Panel on Climate Change (IPCC).

Global Warming Potential refrigerant comparison.



Up to 80%* energy savings with Aquarea.



Power input / energy consumption power.
* At 35 °C flow temperature.

Heat output / heating capacity

As much as 79% of the energy consumption of European homes comes from heating and producing DHW*. That's why, compared to conventional boilers and electric heaters, highly efficient Panasonic air to water heat pump technology can make a significant difference. Moreover, by converting heat energy in the air into household warmth, this technology helps reduce CO_2 emissions and environmental impact.

*** https://ec.europa.eu/eurostat.**

R290
NATURAL
REFRIGERANT

The Aquarea line meets the highest rank of energy efficiency criteria of European energy rating system.

Energy Labelling Regulation (EU) No. 811/2013.

Panasonic

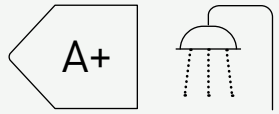
A low energy system for heating and hot water production.

Aquarea is a ground breaking low energy system for heating, cooling and domestic hot water production that delivers outstanding performance, even at extreme outdoor temperatures.

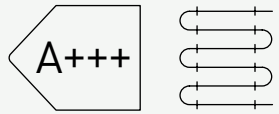
The peak of comfort, efficiency and low energy costs.

Leveraging heat pump technology and our unique expertise, Panasonic has been working for many years to help realise a sustainable society and enrich people's lives. The wide range of Aquarea products makes possible optimum solutions that are tailored to individual lifestyles while offering outstanding environmental performance.

Panasonic has more than 60 years of heat pump experience, having produced an exceptional amount of compressors. Quality is what Panasonic stands for and this is a key factor for succeeding in the European market.
The membership in the European Heat Pump Association, the production of Aquarea in Europe and high security protocols in European servers, make Panasonic a trusted heating partner.



Energy efficiency class up to A+.
Scale from A+ to F.



ErP 35 °C.
Energy efficiency class up to A+++.
Scale from A+++ to D.

* Rating conditions: Heating: Inside air temperature: 20 °C Dry Bulb / Outside air temperature: 7 °C Dry Bulb / 6 °C Wet Bulb. Conditions: Water input temperature: 30 °C / Water output temperature: 35 °C. These energy efficiency might not apply to all models.

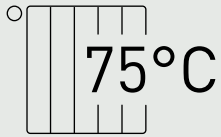
The peak of comfort, efficiency and low energy costs.

Panasonic

Introducing the new Aquarea L Series of air to water heat pumps.

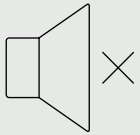
Aquarea L Series is engineered with industry leading R290 natural refrigerant. It is the perfect solution for renovations, where a high water outlet temperature is required or homes looking for avant-garde heat pump with natural refrigerant.

Wi-Fi adapter included



Output water

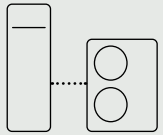
Up to 75 °C water outlet down to -10 °C outdoor.



Quiet operation

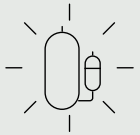
Only 27 dB(A) sound pressure at 5 m*.

* Sound pressure calculation for WH-WDG05LE5, free standing, A +7 °C, W 35 °C in Quiet mode 3.



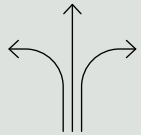
Flexible hydraulic installation

Hydraulic connection between indoor and outdoor.



Made and designed by Panasonic

Reliable outdoor units with Panasonic compressor.



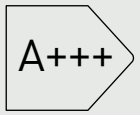
Further flexibility

- Less frequent maintenance with pre-installed magnet filter
- Operation without backup heating at -25 °C*
- Can supply 55 °C hot water even at -25 °C outside temperature*
- Bluefin treatment protection on outdoor heat exchanger for harsh ambient conditions

* Tentative feature.

Smart control and maintenance included

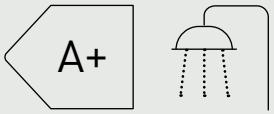
Panasonic Comfort Cloud App and Aquarea Service Cloud included.



High efficiency

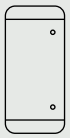
ErP 35 °C. Energy efficiency class up to A+++*.

* Scale from A+++ to D.



High energy efficiency for domestic hot water

DHW COP up to 3,6 [2].



Further energy savings

Domestic hot water up to 65 °C without heater for tank sterilization.

A revolution in design, efficiency, connectivity and sustainability.

Harmony between technology and home.

**In our daily lives, technology is attuned to you and the environment around you, without overstating the device or interface.
Just as the air is always around you even if you're not aware of it, Panasonic's technology continues to be in tune with your environment and your life.**

Harmony with the environment. Save livingspace.
A premium white, faithful to the Aquarea spirit underlined by the seamlessly integrated controller which provides a sleek black band across the unit.

reddot winner 2023

GOOD DESIGN AWARD 2022 BEST 100

Like indoor equipment, the outdoor unit is designed to harmonize with architecture and the environment while quietly supporting the precious time spent with the warm family.
The outdoor units, with an anthracite grey colour which will dress the entire range, have been completely redesigned with an innovative design that will find its place in all spaces.

All in One unit and Bi-bloc indoor unit are designed to blend into your interior space effortlessly.

The outdoor unit is designed to harmonize with architecture and the environment with a quiet operation.

Panasonic's unique low noise architecture. The compressor, which is a major source of noise, is equipped with a double-bottomed structure to provide a safe, quiet structure that does not disturb neighbors in crowded residential areas.

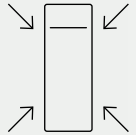
The new Aquarea All in One Compact, the ultimate space-saving solution.

With its small 598 x 600 mm footprint, the new All in One Compact can be neatly lined up with other big appliances like a refrigerator and/or washing machine to reduce the space required for installation. And thanks to its low height, it can be installed with a ventilation unit on top.

Fits beautifully in any space.

Available in120 L and 185 L DHW tank.

Aquarea All in One L Series: the best Panasonic technology.



599 x 602 mm footprint

Reduces required installation space.

No buffer tank required

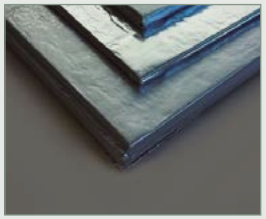
Reducing space, cost and installation time.

Robust body

Enables installation of a top ventilation unit.

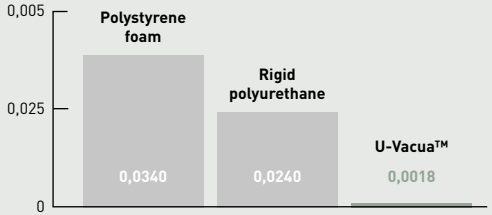
U-Vacua™; Vacuum insulation panel. Significant energy savings with world-leading insulation performance.

Because they leverage VIP technology, U-Vacua™ panels offer 19 times the insulation performance of polystyrene foam. Since the system retains heat longer, it needs to heat up fewer times each day, resulting in energy savings.



U-Vacua™ VIPs consist of a unique fiberglass core encased in a laminate film made up of several layers that include nylon, aluminium, and a protective layer. Interior pressure is reduced to a vacuum of 1-20 Pa, thereby minimizing thermal conductivity.

Comparison of thermal conductivity.



W / mKh (at 24 °C)

Aquarea All in One: the best Panasonic technology for your home.

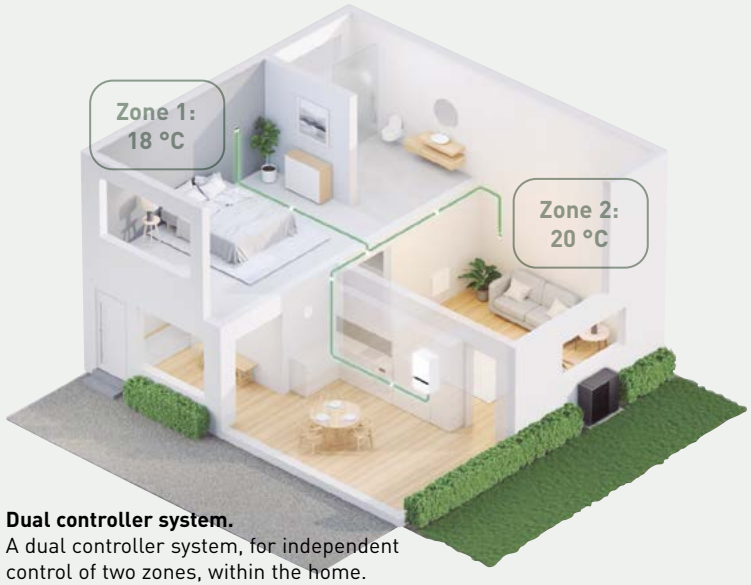
Advanced control and connectivity features, enhanced interface.

Smart bivalency.
Cost effective bivalent mode with power tariff logic.

Smart Grid Ready.
The Aquarea L Series features the SG Ready function* for seamless connection to smart grid controls.

Dual control system.
Allows for independent control of two zones in the home, enhancing comfort and efficiency.

* Additional accessory required.



Dual controller system.
A dual controller system, for independent control of two zones, within the home.

BMS integration.
Aquarea integrates seamlessly with Modbus or KNX projects*, allowing bi-directional monitoring and control of all operating parameters.

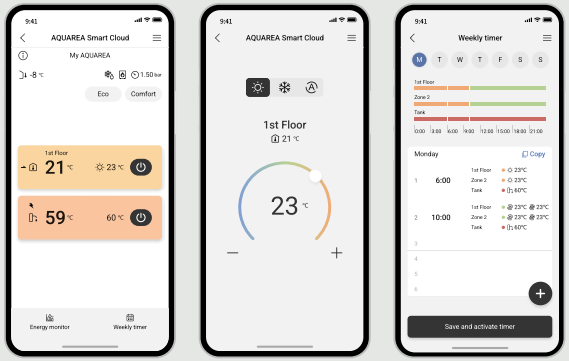
Panasonic Comfort Cloud App.

The IoT solution for your heating and cooling systems to help maximize comfort while managing energy consumption from anywhere, 24/7.

The Panasonic Comfort Cloud App enables you to conveniently manage and monitor the Aquarea range of heating, cooling and hot water functions from a mobile device. Energy monitoring is also possible, giving you the opportunity to reduce operating costs even further.

Aquarea Service Cloud.

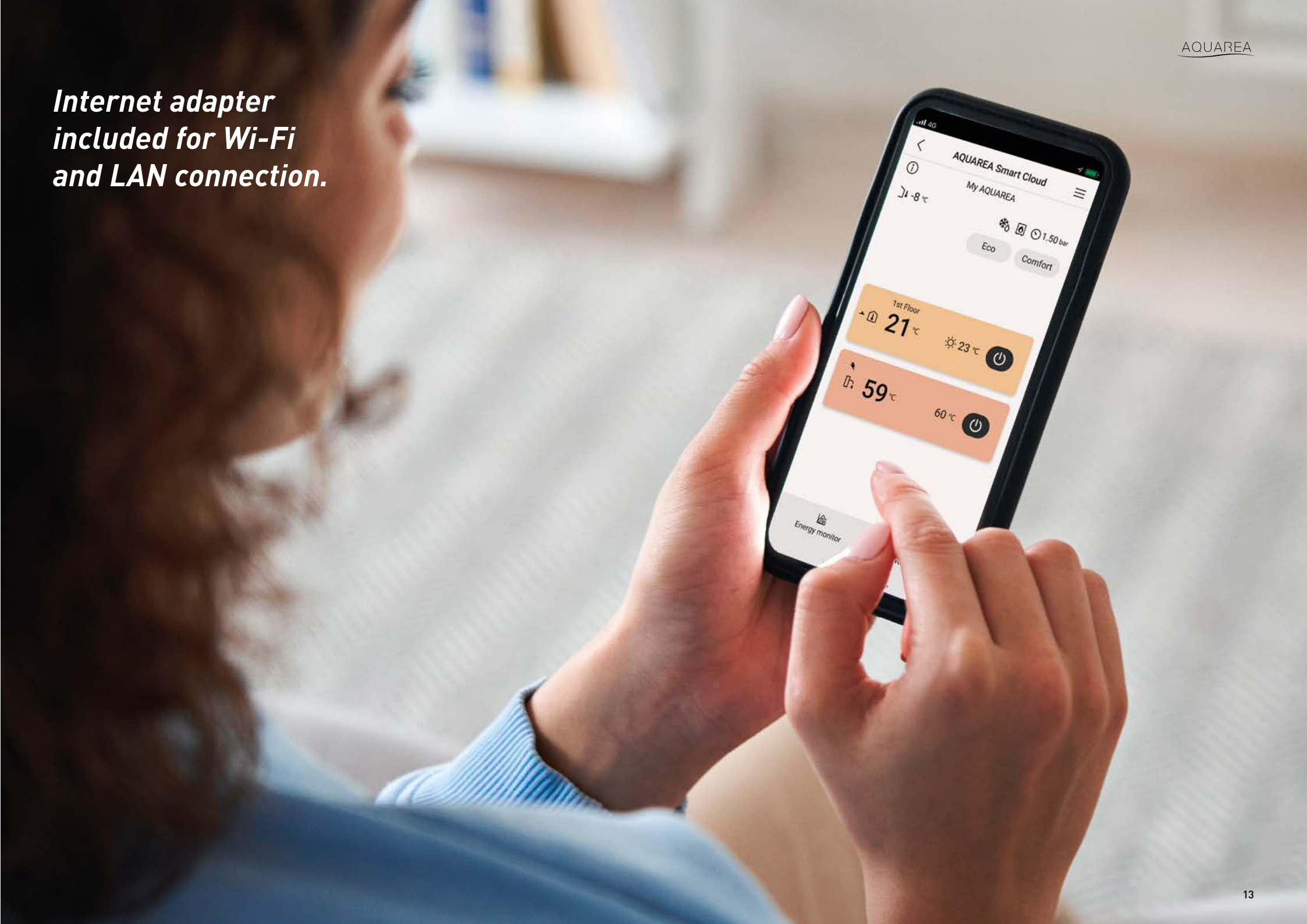
The Aquarea Service Cloud allows professionals to take care of their customers' heating systems remotely, engaging in predictive maintenance and system finetuning and respond rapidly to any malfunctions.



Comfort Cloud

Download Panasonic Comfort Cloud App.

Internet adapter included for Wi-Fi and LAN connection.



Aquarea + tado°, the integrated solution for maximum energy savings and comfort.

tado° | Panasonic

Partnership for smart heat pump solutions

tado° X enables room control and smart energy management services.

Easy to unlock and operate

User-friendly app for seamless heating and energy management.

Future-proof solution

Further efficiency gains via planned software updates.

Advanced energy savings

With the individual room temperature control.

Reliable and trustworthy

Guaranteed and optimised interoperability.

A smart solution for maintaining the perfect temperature in your home.

tado° Heat Pump Optimizer X

tado° Smart Radiator Thermostat X

tado° Wired Smart Thermostat X

works with Google Home

Works with Apple Home

works with alexa

Download on the App Store

GET IT ON Google Play

tado° app and Balance for Heat Pumps [1].
Multi-Room Control, scheduling and energy insights in one market leading app.

12-month free subscription to Balance for Heat Pumps [2].

1) Requires additional subscription. 2) With the purchase of PAW-THP0XE or PAW-THP0XUK. This promotion is subject to change without notice.

tado° smart heating customers save an average of 22% on their energy consumption.

Based on internal data averaged across all tado° customers, collected up to 11/2023.

Aquarea L Series gives you even more.

Highly efficient Panasonic solutions can help to significantly reduce the energy consumption of the building, at the same time a high level of comfort and good indoor air quality are kept.

Ventilation unit for a low-energy buildings.

Maximise building comfort by combining heat recovery ventilation units with Aquarea Heat Pumps for an efficient, space-saving solution for heating, cooling, ventilation and DHW.

Aquarea Air Smart fan coils.

Stylish, compact fan coil units for high comfort and energy savings.
Aquarea Heat Pumps can be integrated into a new or existing hydronic system.

Maximised efficiency with PV panels.

By integrating Aquarea Heat Pumps with PV panels*, heating, cooling and hot water production is adapted to the solar energy output, reducing energy costs.

* Additional accessory required.

Aquarea Home

New Aquarea Home App, seamless control of all Aquarea room solutions .

The Aquarea Home App enables seamless control and monitoring of the Aquarea room solutions through an intuitive, user-friendly interface.

App Store Google Play

AQUAREA+

Get the most out of your Aquarea Heat Pump.

Aquarea+ offers end user useful information to operate a Panasonic Aquarea Heat Pump to provide heating, cooling and hot water in the most efficient and cost effective way.

Visit Aquarea+

AQUAREA SERVICE+

A window to tranquility.

Let us take care of your heat pump so you can just relax and enjoy a cozy, warm home. Aquarea Service+ offers a choice of 3 different service packages for you to select the one that best fits your needs.

Visit Aquarea Service+

High degree of living comfort and energy management.

Combination table							Outdoor unit		
Indoor unit							Heating capacity		
							Single phase (power to indoor)		
							5,0 kW	7,0 kW	9,0 kW
		DHW tank	Backup heater capacity	2 zones	Electrical anode		WH-WDG05LE5	WH-WDG07LE5	WH-WDG09LE5
Hydraulic All in One	1ph	120 L	3 kW	—	—	WH-ADC0509L3E51	✔	✔	✔
		120 L	3 kW	—	✔	WH-ADC0509L3E5AN1	✔	✔	✔
		185 L	3 kW	—	—	WH-ADC0509L3E5	✔	✔	✔
		185 L	3 kW	—	✔	WH-ADC0509L3E5AN	✔	✔	✔
		185 L	6 kW	—	—	WH-ADC0509L6E5	✔	✔	✔
		185 L	6 kW	—	✔	WH-ADC0509L6E5AN	✔	✔	✔
		185 L	3 kW	✔	—	WH-ADC0509L3E5B	✔	✔	✔
Hydraulic Bi-bloc	1ph	—	3 kW	—	—	WH-SDC0509L3E5	✔	✔	✔
		—	6 kW	—	—	WH-SDC0509L6E5	✔	✔	✔

Outdoor unit			WH-WDG05LE5	WH-WDG07LE5	WH-WDG09LE5
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	5,00 / 5,05	7,00 / 4,93	9,00 / 4,55
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	5,00 / 3,07	7,00 / 2,98	8,90 / 3,03
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	5,00 / 3,52	6,85 / 3,43	7,00 / 3,41
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	5,00 / 2,34	6,25 / 2,34	7,00 / 2,41
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	5,00 / 3,01	5,80 / 3,01	7,00 / 2,80
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	5,00 / 2,12	5,80 / 2,12	7,00 / 2,13
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	5,00 / 3,23	7,00 / 3,03	8,20 / 2,82
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	5,00 / 5,00	7,00 / 4,73	9,00 / 4,19
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	5,06 / 3,63 (200 / 142)	4,96 / 3,62 (195 / 142)	4,84 / 3,67 (190 / 144)
	Energy class [1]	A+++ to D	A+++ / A++	A+++ / A++	A+++ / A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,00 / 4,27 (237 / 168)	6,31 / 4,52 (249 / 178)	6,44 / 4,50 (255 / 177)
	Energy class [1]	A+++ to D	A+++ / A+++	A+++ / A+++	A+++ / A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,25 / 3,28 (167 / 128)	4,25 / 3,29 (167 / 129)	4,31 / 3,33 (170 / 130)
	Energy class [1]	A+++ to D	A++ / A++	A++ / A++	A++ / A++
Sound power [2]	Heat	dB(A)	52	53	54
Dimension / Net weight	H x W x D	mm / kg	996 x 980 x 430 / 98	996 x 980 x 430 / 98	996 x 980 x 430 / 97
Refrigerant (R290) / CO_2 Eq.		kg / T	0,96 / 0,00002	0,96 / 0,00002	1,00 / 0,00002
Operating range - outdoor ambient	Heat	°C	-25 ~ +35	-25 ~ +35	-25 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet	Heat / Cool	°C	20 ~ 75 / 5 ~ 20	20 ~ 75 / 5 ~ 20	20 ~ 75 / 5 ~ 20

1) Scale from A+++ to D. 2) Sound power level in accordance to EN 12102 under conditions of the EN14825 (part load). * EER and COP calculation is based in accordance to EN 14511.

Indoor unit			**WH-ADC0509L3E51***	**WH-ADC0509L3E5**	**WH-ADC0509L6E5**
Indoor unit 2 zones			**—**	**WH-ADC0509L3E5B**	**—**
Indoor unit with Electrical Anode			**WH-ADC0509L3E5AN1***	**WH-ADC0509L3E5AN**	**WH-ADC0509L6E5AN**
Sound pressure	Heat / Cool	dB(A)	31/31	28/28	28/28
Dimension	H x W x D	mm	1293 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602
Net weight / 2 zones model		kg	79/—	93/101	94/—
Water pipe connector	Room / Shower	Inch	1¼/¾	1¼/¾	1¼/¾
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed
	Input power (Min/Max)	W	30/145	30/145	30/145
Heating water flow (ΔT=5 K. 35 °C)		L/min	14,3	14,3	25,8
Water volume		L	120	185	185
Maximum DHW temperature		°C	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel
Water pipe connector (indoor / outdoor units)		Inch	1/1	1/1	1/1
Pipe length range standard / maximum		m	5/30	5/30	5/30
Elevation difference (in / out)		m	10	10	10
Electric backup heater		kW	3,00	3,00	6,00
Recommended fuse, supply 1 / 2 [1]		A	25/16	25/16	25/30
Recommended minimum cable size, supply 1 / 2 [1]		mm²	3x2,5/3x1,5	3x2,5/3x1,5	3x2,5/3x4,0

Domestic Hot Water energy efficiency			**120 L**	**185 L**	**120 L**	**185 L**	**120 L**	**185 L**
Indoor unit			**WH-ADC0509L3E51**	**WH-ADC0509L3E5**	**WH-ADC0509L3E51**	**WH-ADC0509L3E5**	**WH-ADC0509L3E51**	**WH-ADC0509L3E5**
			WH-ADC0509L3E5AN1	**WH-ADC0509L3E5AN**	**WH-ADC0509L3E5AN1**	**WH-ADC0509L3E5AN**	**WH-ADC0509L3E5AN1**	**WH-ADC0509L3E5AN**
				WH-ADC0509L3E5B		**WH-ADC0509L3E5B**		**WH-ADC0509L3E5B**
				WH-ADC0509L6E5		**WH-ADC0509L6E5**		**WH-ADC0509L6E5**
				WH-ADC0509L6E5AN		**WH-ADC0509L6E5AN**		**WH-ADC0509L6E5AN**
Outdoor unit			**WH-WDG05LE5**		**WH-WDG07LE5**		**WH-WDG09LE5**	
Tapping profile according EN16147			M	L	M	L	M	L
DHW tank ERP efficiency average / warm / cold [2]	A+ to F		A+/A++/A	A+/A+/A	A+/A++/A	A+/A+/A	A+/A++/A	A+/A+/A
DHW tank ERP average climate ɳ / COPdHW	ɳwh %/COPdHW		115/2,88	148/3,61	115/2,88	148/3,61	115/2,88	148/3,61
DHW tank ERP warm climate ɳ / COPdHW	ɳwh %/COPdHW		134/3,35	160/4,00	134/3,35	160/4,00	134/3,35	160/4,00
DHW tank ERP cold climate ɳ / COPdHW	ɳwh %/COPdHW		90/2,26	112/2,80	90/2,26	112/2,80	90/2,26	112/2,80

1) Check local regulations. 2) Scale from A+ to F. * Available in Spring 2025. ** This product is designed to comply with the European drinking water standard (EU) 2020/2184. 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.

Indoor unit			**WH-SDC0509L3E5**	**WH-SDC0509L6E5**
Sound pressure	Heat / Cool	dB(A)	28/28	28/28
Dimension / Net weight	H x W x D	mm	892 x 500 x 348 / 33	892 x 500 x 348 / 33
Water pipe connector	Room	Inch	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed
	Input power (Min/Max)	W	30/145	30/145
Heating water flow (ΔT=5 K. 35 °C)		L/min	14,3	20,1
Water pipe connector (indoor / outdoor units)		Inch	1/1	1/1
Pipe length range standard / maximum		m	5/30	5/30
Elevation difference (in / out)		m	10	10
Electric backup heater		kW	3,00	6,00
Recommended fuse, supply 1 / 2 [1]		A	25/16	25/30
Recommended minimum cable size, supply 1 / 2 [1]		mm²	3x2,5/3x1,5	3x2,5/3x4,0

1) Check local regulations. * This product is designed to comply with the European drinking water standard (EU) 2020/2184. 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.

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EU-LFTAQL0225/03