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AQUAREA

New AQUAREA All in One Compact Product Presentation



heating & cooling solutions

As of 18/September/2020

The New AQUAREA All in One Compact, the Ultimate Space-Saving Solution

AQUAREA

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.



What's AQUAREA All in One?

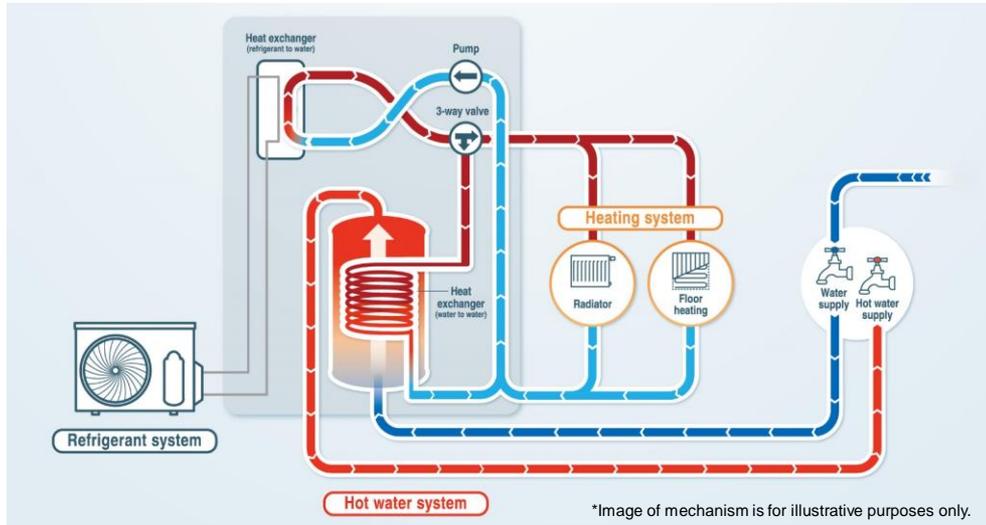
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A low-energy system for heating and hot water production

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

It offers outstanding efficiency and energy savings with low CO₂ emissions.

All in One Compact Mechanism



Aquarea High-Performance Lineup

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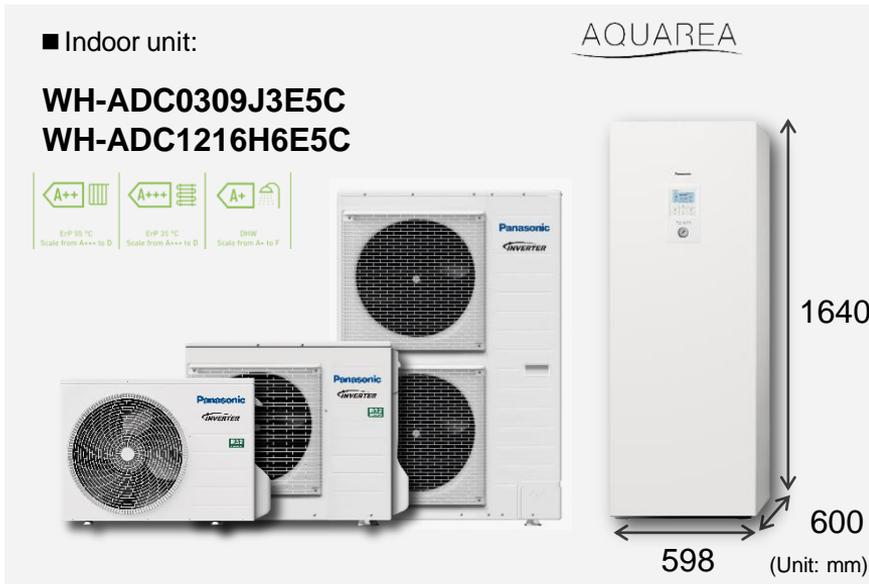
			Single-phase						Three-phase		
			3 kW	5 kW	7 kW	9 kW	12kW	16kW	9 kW	12kW	16kW
All in One Ideal for small spaces, this system produces hot/cold water and stores 185 L of domestic hot water in a built-in stainless steel tank. 	Compact	NEW H generation					✓	✓			
		J generation 	✓	✓	✓	✓					
	Standard	H generation					✓	✓	✓	✓	✓
		J generation 	✓	✓	✓	✓					
	2 zone	J generation 	✓	✓	✓	✓					
	Bi-bloc A two-part system with an outdoor and indoor unit to provide cooling, heating and/or for storing domestic hot water for a wide range of applications. Suitable for any home. 	H generation					✓	✓	✓	✓	✓
J generation 		✓	✓	✓	✓						
Mono-bloc A single outdoor unit that provides water for cooling, heating and/or for storing domestic hot water. 	H generation					✓	✓				
	J generation 		✓	✓	✓						



AQUAREA T-CAP Lineup

			Single phase			Three phase		
			9 kW	12kW	16kW	9 kW	12kW	16kW
All-in-One Ideal for small spaces, this system produces hot/cold water and stores 185 L of domestic hot water in a built-in stainless-steel tank. 	Standard	H Generation	✓	✓		✓	✓	✓
	Super quiet	H Generation				✓	✓	✓
	Compact	NEW H Generation	✓	✓				
Bi-bloc A two-part system with an outdoor and indoor unit to provide cooling, heating and/or domestic hot-water storage for a wide range of applications. Suitable for any home. 	H Generation / SXC		✓	✓		✓	✓	✓
	H Generation / SQC					✓	✓	✓
Mono-bloc A single outdoor unit that provides cooling, heating and/or domestic hot-water storage. 	H Generation		✓	✓		✓	✓	✓
	NEW J Generation 		✓	✓		✓ Coming soon ✓		





		3 kW	5 kW	7 kW	9 kW	12 kW	16 kW
High Performance	J generation 	✓	✓	✓	✓		
	H generation					✓	✓
T-CAP	H generation				✓	✓	

All in One Compact indoor unit

Compact & Slim Design NEW ///

- 598 x 600 mm footprint reduces required installation space
- Lower height leaves space for a ventilation unit

Further Flexibility NEW ///

- Easy access to hydraulic parts NEW ///
- Less frequent maintenance with pre-installed improved magnet filter NEW ///

Top-Level Energy Efficiency

- Top class ErP for heating and DHW COP
- Tank boasts high heat retention thanks to U-Vacua™
U-Vacua™ is a vacuum insulation panel (VIP) technology

Convenience and Safety^{*1}

- AQUAREA Smart Cloud
- AQUAREA Service Cloud

*1 Optional Wi-Fi adapter (CZ-TAW1) required.



Difference between AiO Compact and AiO

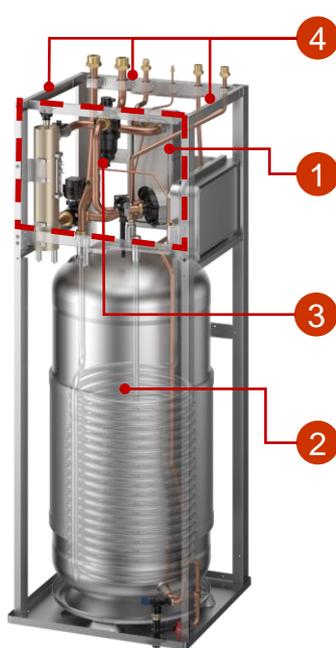
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Made compact but maintenance is still easy

AiO J



AiO Compact



1

Maintained Serviceability

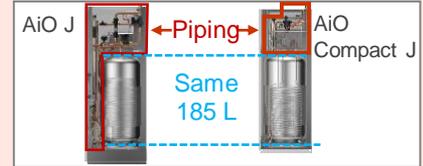
- Easy maintenance concept is retained
- Easy access to hydraulic parts thanks to door opening mechanism
- No buffer tank required, reducing space, cost and installation time



2

Slimmer, Yet Same Tank Capacity

Piping layout at the top in order to maintain large 185 L tank capacity.



3

Improved Water Filter for Less Maintenance

Dust removal capacity of the water filter has been increased 5 times*. Less frequent filter cleaning means more convenience.

*Compared to conventional model



4

Robust Body for Top Ventilation Unit

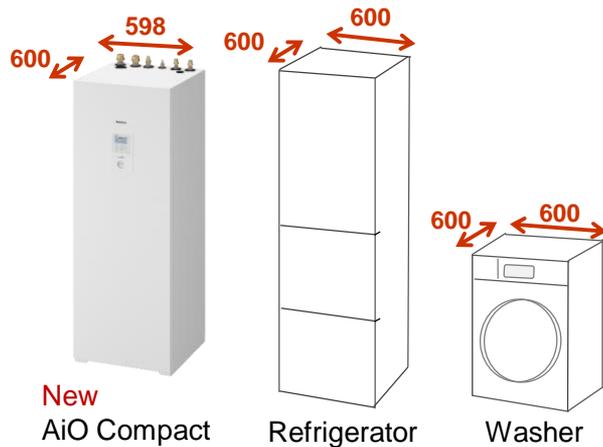
Strengthening the body and top surface with a frame enables installation of a top ventilation unit. For safety, it's secured with bolts to prevent it falling.



Fits beautifully in any kitchen, small laundry space, or wherever else desired

The same depth as a regular refrigerator/washing machine.

600 mm deep/598 mm wide



Kitchen



Body colour: RAL9010

Laundry space

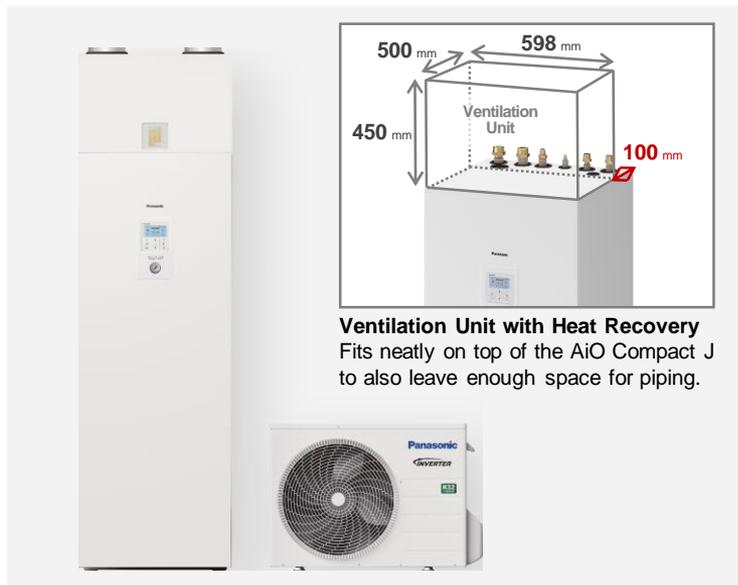


Body colour: RAL9010

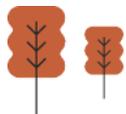
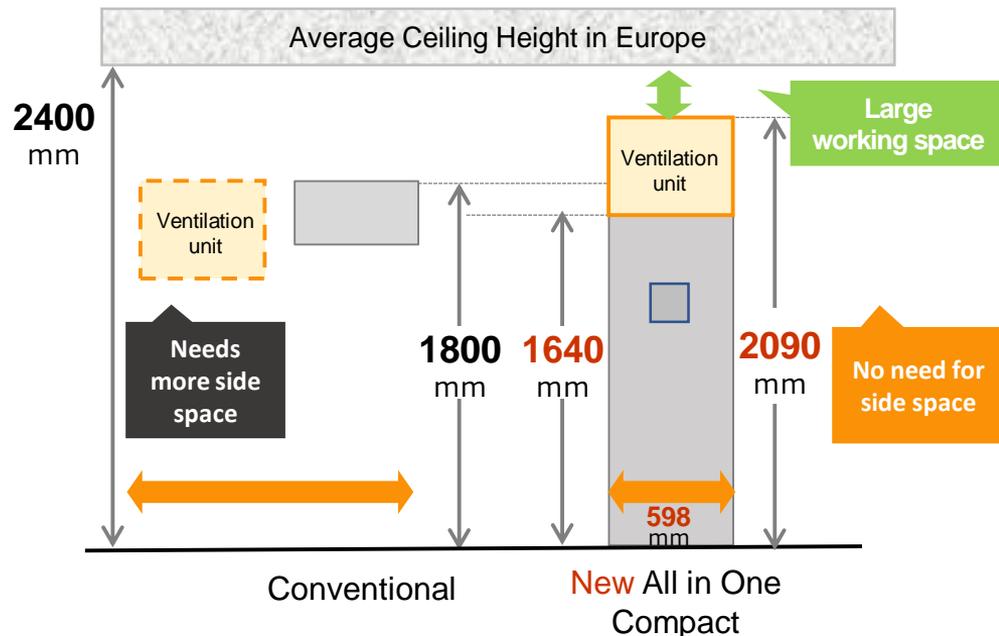


Meets new installation demands for a combined ventilation unit

Integrated Design with Top Ventilation Unit



New height enables the ventilation unit to be on top



Top-Class Efficiency

Heating rate

Energy efficiency class up to A+++ in a scale from A+++ to D.



ErP 35°C

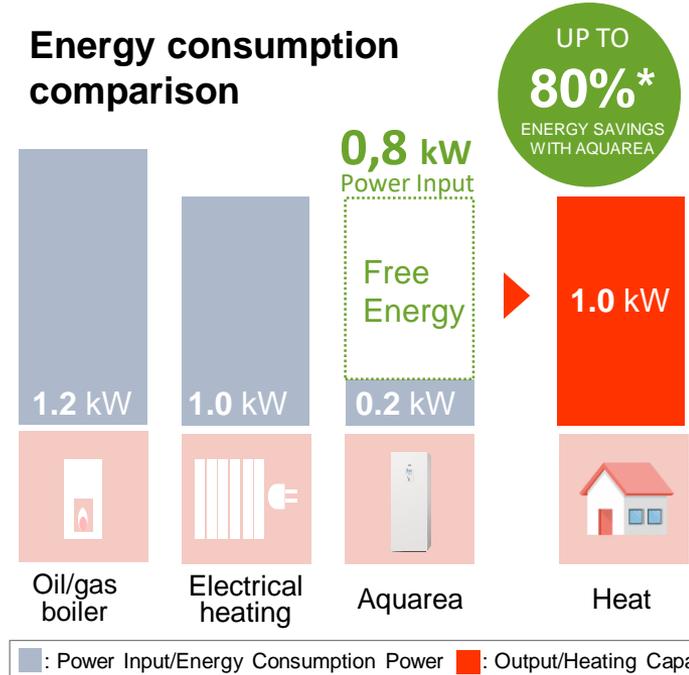
Domestic hot water

Energy efficiency class up to A+ in a scale from A+ to F.



DHW

Energy consumption comparison



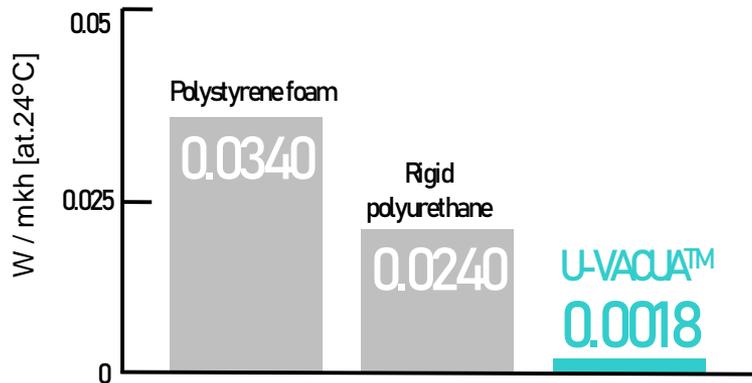
*Rating conditions: Heating: Inside air temperature: 20°C Dry Bulb / Outside air temperature: 7°C Dry Bulb / 6°C Wet Bulb. Conditions: Water input temperature: 30°C Water output temperature: 35°C



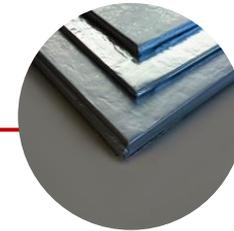
Significant energy savings with world-leading insulation performance

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.

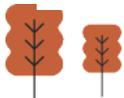
Comparison of thermal conductivity



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Unique Technology



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 minimising thermal conductivity.



Aquarea Smart Cloud for end users

Easy and powerful energy management with convenient remote control via IoT

The Aquarea Smart Cloud is much more than a simple controller for switching a heating device ON or OFF. It is a powerful and intuitive service for remotely controlling the full range of heating and hot water functions, including monitoring energy consumption.



*Note: User interface is subject to change without notice.



Advantages

Allows professionals to engage in predictive maintenance and system fine-tuning and respond rapidly to any malfunctions.

Functions

- Scheduling
- Malfunction notifications
- Display and control
- Energy statistics

More possibilities with IFTTT.

IF This Then That: IFTTT service enables user to automatically trigger actions for Aquarea system based on other apps, web services or devices.

Connect your Aquarea to your voice assistant, get an e-mail if your Aquarea gets an error or automatically turn on your Aquarea on Heat Mode when outdoor temperature drops below specified level.

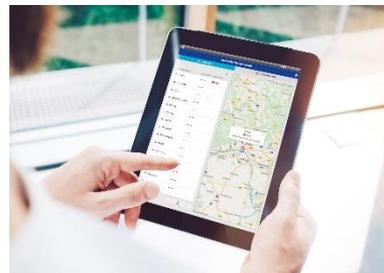


Aquarea Service Cloud for Installers/Maintenance

The real remote maintenance made simple

The Aquarea Service Cloud allows installers to take care of their customers' heating systems remotely.

It saves time and money and shortens the response time, thus increasing the customers' satisfaction.



Advanced functions for remote maintenance with professional screens

- Global view at a glance
- Full unit information
- Error log history
- Statistics always available
- Most settings available

Home page.

Status of connected users at a glance. 2 view options: map view or list view.



Status tab.

Current status of unit with a maximum 28 parameters.



Statistics tab.

Customisable statistics of a maximum of 71 parameters. Available anytime with the information of the last 7 days



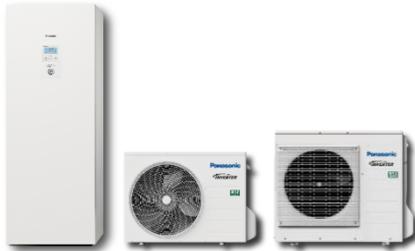
Settings tab.

Most of the user and installer settings can be done remotely.



Specifications

All in One Compact J Generation



*1 Scale from A+++ to D. *2 Sound pressure level is measured with distance 1.0 m from the unit and height at 1.5 m. (Test carry out for cooling at ambient 35°C DB and Water Out 7°C, heating at ambient 7°C DB / 6°C WB and water out 55°C) *3 Scale from A+ to F. *4 Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7°C. EER and COP calculation is based in accordance to EN14511.

Kit			Single Phase (Power to indoor)			
			KIT-ADC03JE5C	KIT-ADC05JE5C	KIT-ADC07JE5C	KIT-ADC09JE5C-1
Heating capacity (A +7 °C, W 35 °C)	kW	3.20	5.00	7.00	9.00	
COP (A +7 °C, W 35 °C)	COP	5.33	5.00	4.76	4.48	
Heating capacity (A +2 °C, W 35 °C)	kW	3.20	4.20	6.85	7.00	
COP (A +2 °C, W 35 °C)	COP	3.64	3.18	3.41	3.40	
Cooling capacity (A 35 °C, W 7 °C)	kW	3.20	4.50	6.70	8.20	
EER (A 35 °C, W 7 °C)	EER	3.52	3.00	3.03	2.72	
Seasonal energy efficiency - Heating average climate (W35 °C)	ηs %	200	200	193	193	
	SCOP	5.07	5.07	4.90	4.90	
Seasonal energy efficiency - Heating average climate (W55 °C)	ηs %	136	136	130	130	
	SCOP	3.47	3.47	3.32	3.32	
Energy class heating average climate (W35 °C / W55 °C)*1	A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++	
Indoor unit			WH-ADC0309J3E5C			
Sound pressure*2	Heat/Cool	dB(A)	28	28	28	28
Dimension	H x W x D	mm	1640 x 598 x 600			
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel
DHW tank ERP average climate efficiency rating*3	A+ to F		A+	A+	A+	A+
DHW tank ERP average climate η / COP	ηwh %		128	128	116	116
	COP		3.20	3.20	2.90	2.90
Outdoor unit			WH-UD03JE5	WH-UD05JE5	WH-UD07JE5	WH-UD09JE5-1
Sound power part load*4	Heat	dB(A)	55	55	59	59
Dimension	H x W x D	mm	622 x 824 x 298		795 x 875 x 320	
Operation range (outdoor temperature)	Heat	°C	-20 ~ +35			
	Cool	°C	+10 ~ +43			
Water outlet	Heat	°C	20 ~ 60			
	Cool	°C	5 ~ 20			



Specifications

All in One Compact H Generation



*1 Scale from A+++ to D. *2 Sound pressure level is measured with distance 1.0 m from the unit and height at 1.5 m. (Test carry out for cooling at ambient 35°C DB and Water Out 7°C, heating at ambient 7°C DB / 6°C WB and water out 55°C) *3 Scale from A+ to F. *4 Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7°C. EER and COP calculation is based in accordance to EN14511.

			Single Phase (Power to indoor)			
Kit			KIT-ADC12HE5C	KIT-ADC16HE5C	KIT-AXC09HE5C	KIT-AXC12HE5C
Heating capacity (A +7 °C, W 35 °C)	kW		12.00	16.00	9.00	12.00
COP (A +7 °C, W 35 °C)	COP		4.74	4.28	4.84	4.74
Heating capacity (A +2 °C, W 35 °C)	kW		11.40	13.00	9.00	12.00
COP (A +2 °C, W 35 °C)	COP		3.44	3.28	3.59	3.44
Cooling capacity (A 35 °C, W 7 °C)	kW		10.00	12.20	7.00	10.00
EER (A 35 °C, W 7 °C)	EER		2.81	2.56	3.17	2.81
Seasonal energy efficiency - Heating average climate (W35 °C)	ηs %		190	190	181	170
	SCOP		4.82	4.82	4.59	4.32
Seasonal energy efficiency - Heating average climate (W55 °C)	ηs %		134	130	130	130
	SCOP		3.42	3.33	3.32	3.32
Energy class heating average climate (W35 °C / W55 °C)*1	A+++ to D		A+++/A++	A+++/A++	A+++/A++	A++/A++
Indoor unit			WH-ADC0309J3E5C			
Sound pressure*2	Heat/Cool	dB(A)	33	33	33	33
Dimension	H x W x D	mm	1640 x 598 x 600			
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel
DHW tank ERP average climate efficiency rating*3	A+ to F					
DHW tank ERP average climate η / COP	ηwh %		92	88	92	92
	COP		2.30	2.20	2.30	2.30
Outdoor unit			WH-UD12HE5	WH-UD16HE5	WH-UX09HE5	WH-UX12HE5
Sound power part load*4	Heat	dB(A)	65	65	66	66
Dimension	H x W x D	mm	1340 x 900 x 320			
Operation range (outdoor temperature)	Heat	°C	-20 ~ +35		-28 ~ +35	
	Cool	°C	+16 ~ +43			
Water outlet	Heat	°C	20 ~ 55		20 ~ 60	
	Cool	°C	5 ~ 20			



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