



Panasonic
BUSINESS

Novinky 2018

heating & cooling solutions

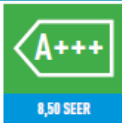


Panasonic BUSINESS

NEW PROFESSIONAL SERIES 2018



New Etherea design with new **R32** refrigerant



High efficiency rank **A+++**/**A+**



High comfort with a **silent** indoor unit



New **Panasonic** WiFi internet controller **CZ-TACG1**



Panasonic unique server rooms solution backup, rotation and temperature **PAW-SERVER-PKEA**



COOLING MODE



HEATING MODE



R410A/R32 RENEWAL



BMS CONNECTIVITY



INTERNET CONTROL



5 YEARS WARRANTY

heating & cooling solutions

NEW Z-TKEA - Highlights

Panasonic BUSINESS

Line-up

Z-TKEA



NEW Panasonic WiFi kit for Internet Control **CZ-TACG1**

< Indoor unit size (HWD) > 295*919*194mm
(50/71 : wide chassis)

< Capacity (kw) >

25	35	42	50	71
0	0	0	0	0

Specially designed for professional applications, such a server room, cooling all year up to -20°C

Characteristics

- 1

Efficiency A3/A1 Eco

High energy efficiency rank 8,50 A+++ (Z25/35/42/50TKEA)
- 2

Professional design

Designed for 24/365 special application server room
- 3

New 7,1kW/h Comfort

Wider product range more options for professional applications
- 4

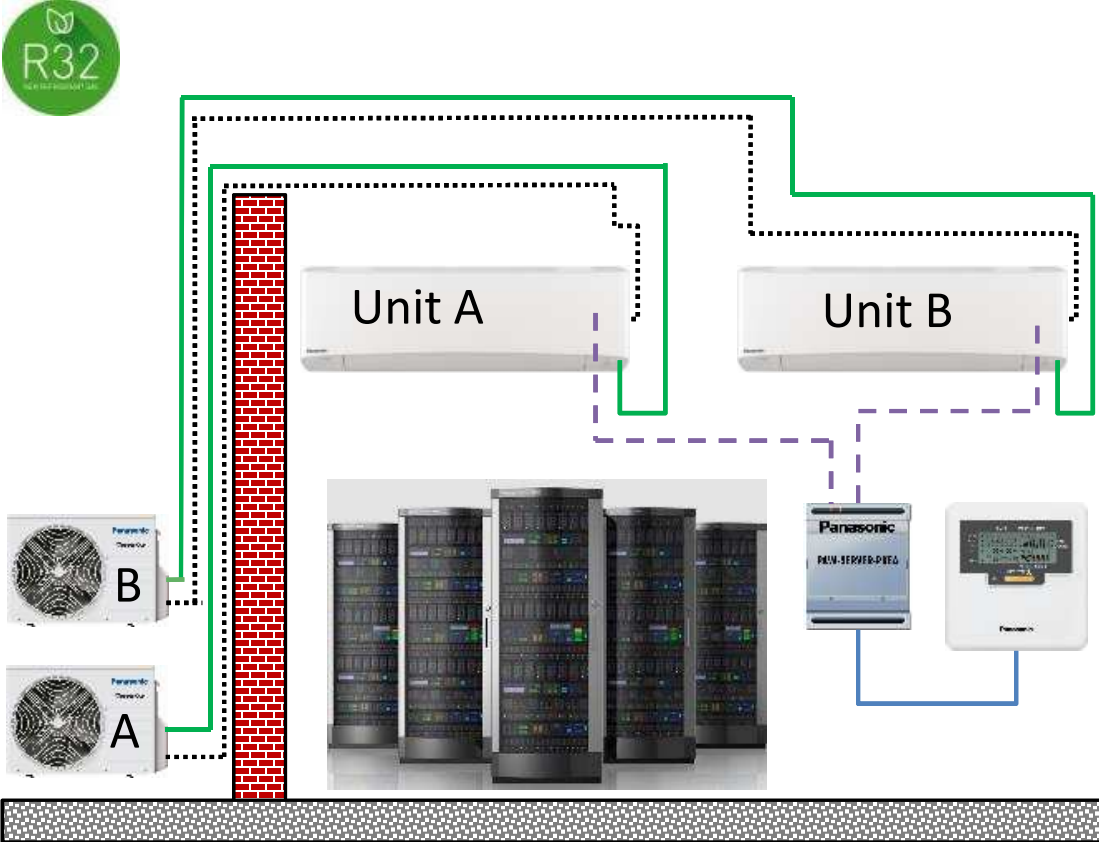
Connector CN-CNT Connectivity

Connectivity to internet via Panasonic Wi-Fi

NEW Z-TKEA – PAW-SERVER-PKEA



Line-up



Unique Server Room Solution

- 1 BACKUP OPERATION**
When unit A has an error unit B switches on automatically and gives an error output signal
- 2 ROTATION OPERATION**
Every 12 hours units changes operation On/Off to increase life cycle on compressor
- 3 TEMPERATURE SAFETY CONTROL**
When room temperature rise more than 28°C, both units work together and give an output error signal automatically
- 4 EXTERNAL BMS CONTROL**
Input and output signals for managing system remotely

NEW Panasonic APP & WiFi Kit

Panasonic BUSINESS

CZ-TACG1

100% Panasonic development



NEW Panasonic WiFi kit for Internet Control
Full indoor functions control such Econavi, Nanoe, etc.



Characteristics

1 Compact size



2 Easy to install & Connect

Connect to CN-CNT connector
Heat & Cool Panasonic APP
Up to 200 units by 1 APP
19 Languages available
More AC features control by phone



3 Wide compatibility

All indoor units with **CN-CNT** connector



heating & cooling solutions

Heat & Cool APP

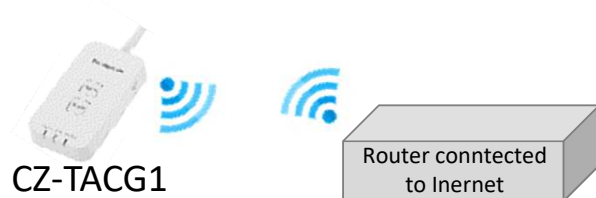
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Compatibility and easy to set up. What do you need?

What needed at home?



Any Panasonic RAC indoor unit
with CN-CNT connector *



* All CS-Z** or CS-E** except CS-E**GFEW

What user need for enjoying?

1. Panasonic ID (register on web)
2. Smartphone (minimum Android 4.4 or Apple iOS9)
3. Download free Heat & Cool Panasonic APP



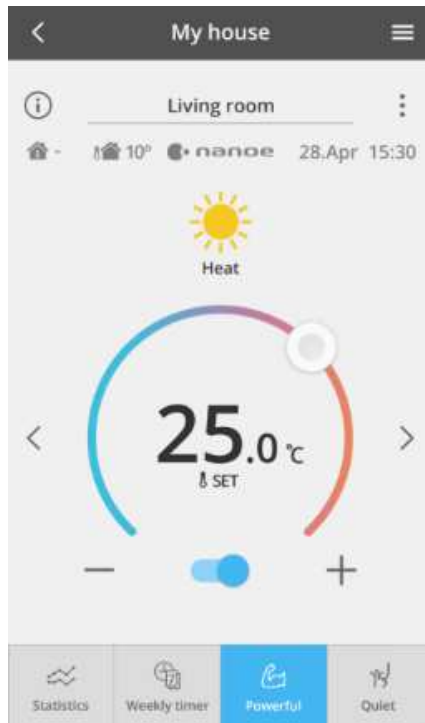
Multiple users can be set up for one device
With different levels of control

APP available from April 2018

APP available in 19 languages: Bulgarian, Croatian, Czech, Danish, Deutsch, English, Estonia, Finnish, Francais, Greek, Hungarian, Italiano, Norwegian, Polish, Portuguese, Slovenia, Spanish, Swedish, Turkish

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Basic function list



Function List

1. ON/OFF
2. Basic Mode Control
3. Temperature Setting
4. Fan Speed Setting
5. Airflow Direction setting
6. Powerful
7. Quiet
8. nanoe ON/OFF
9. ECONAVI ON/OFF
10. Weekly Timer
11. All ON/OFF



What You Can Check

1. Outdoor Temperature
2. Electricity Consumption (in kWh)

How Many Units to register

- 1 Location can hold max 20 units
- 1 App can include 10 Locations (max 200 units)

Functions shown in the APP will vary depending on the unit.

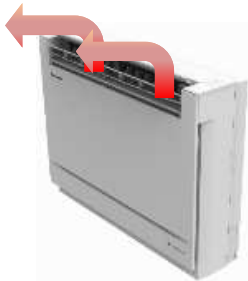
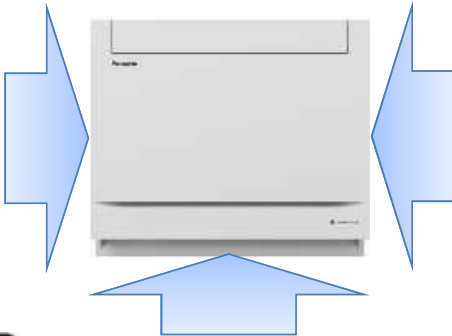
NEW Z-UFE - Highlights

Panasonic BUSINESS

Line-up



Z-UFE



New remote controller



NEW Panasonic WiFi kit for Internet Control **CZ-TACG1**



< Indoor unit size (HWD) > 600*750*205mm

< Capacity (kw) >

20	25	35	50
(O)	O	O	O

Compatible with only 2 ports Multi Z
Multi E up to 5 ports
20 only for Multi connection



Characteristics

- 1

Efficiency A2/A2

High energy efficiency rank 8,10 A++ (Z35UFE)

Eco
- 2

Compact design

All capacity same compact chassis

Beauty
- 3

Clean air with nanoe-X

Quiet operation 20dB(A)

Healthy

Comfort
- 4

Connector CN-CNT

Connectivity to internet via Panasonic WiFi or Intesishome

Connectivity

heating & cooling solutions

NEW Z-UD3EA - Highlights

Panasonic BUSINESS

Line-up




Z-UD3EA




- ✓ Drain water pump
- ✓ Air filter
- ✓ Single & Multi
- ✓ R32 & R410a (Multi)



NEW Panasonic WiFi kit for Internet Control **CZ-TACG1**

< Indoor unit size (HWD) > 200*750*640mm

< Capacity (kw) >

20	25	35	50	60
(O)	O	O	O	O

Compatible with Multi Z and Multi E
20 only for Multi connection
60 new capacity in 1:1 and Multi.



COOLING MODE



HEATING MODE

Characteristics

- 1

Efficiency A1/A1

High energy efficiency rank 5,90 A+ (Z50UD3EA)

Eco

- 2

Compact design

All capacity same compact chassis ONLY 200mm height

Beauty

- 3

Quiet operation 23dB(A)*

*CS-Z35UD3EAW Slo fan speed

Comfort

- 4

Connector CN-CNT

Connectivity to internet via Panasonic WiFi or Intesishome

Connectivity

heating & cooling solutions

NEW Z-UB4EA - Highlights

Panasonic BUSINESS

Line-up

Z-UB4EA



New panel **CZ-BT20EW**

New Control



NEW Panasonic WiFi kit for Internet Control **CZ-TACG1**

< Indoor unit size (HWD) > 200*750*640mm

< Capacity (kw) >

20	25	35	50	60
(O)	O	O	O	O

Compatible with Multi Z and Multi E
20 only for Multi connection



Characteristics

- 1

Efficiency **A2/A1**

High energy efficiency rank 6,50 A++ (Z35UB4EA)

Eco
- 2

Compact design

All capacity same compact chassis ONLY 260mm height

Beauty
- 3

Quiet operation 22dB(A)*

*CS-Z25UB4EAW Slo fan speed

Comfort
- 4

Connector CN-CNT

Connectivity to internet via Panasonic WiFi or Intesishome

Connectivity

heating & cooling solutions

Free Multi - Highlights

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Line-up



xZ-xxTBE



< Outdoor unit size (HWD) > 619*824*299mm (2 port)
795*875*320mm (3/4 port)

< Capacity (kw) > 999*940*340mm (4/5 port)

2Z35	2Z41	2Z50	3Z52	3Z68	4Z68	4Z80	5Z90
○	○	○	○	○	○	○	○

Floor Console connectable only to 2 ports R32 multi split.

Characteristics

1 Top Efficiency **A3/A2** Eco
The best SEER and SCOP in 2 ports

2 All product range R32 Eco
Low GWP reduces CO2 foot print in building

3 Wide range connection Comfort

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Free Multi - Highlights

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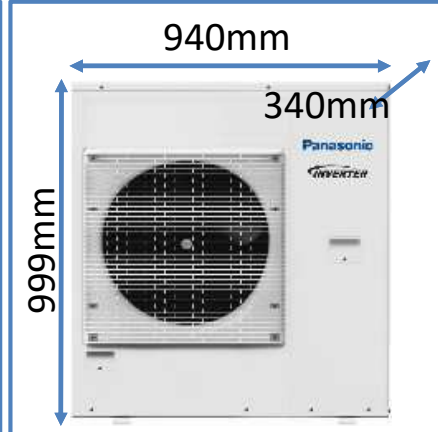
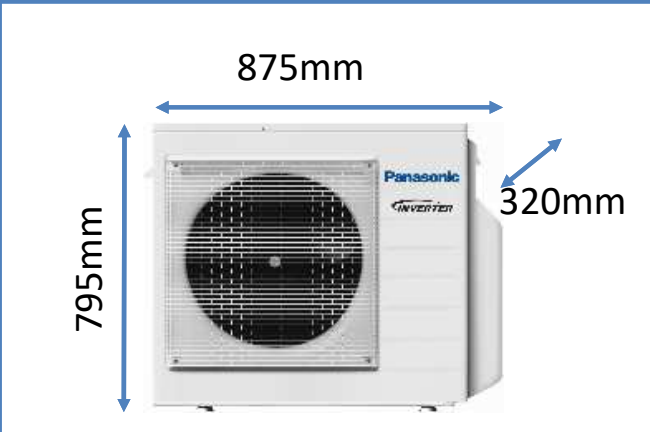
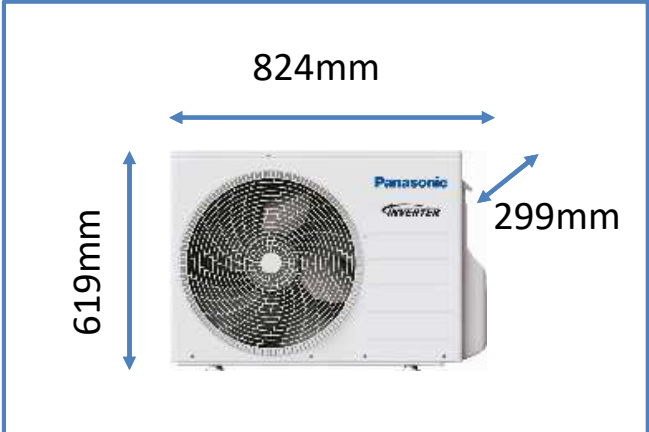
-10°C
COOLING MODE

-15°C
HEATING MODE

R32
NEW REFRIGERANT GAS

R410A R22 R32
R410A/R22 RENEWAL

5 YEARS
COMPRESSOR WARRANTY



		2Z35TBE	2Z41TBE	2Z50TBE	3Z52TBE	3Z68TBE	4Z68TBE	4Z80TBE	5Z90TBE
COOLING CAPACITY	Nominal (Min-Max)	3,50 (1,50–4,50)	4,10 (1,50–5,20)	5,00 (1,50–5,40)	5,20 (1,90–7,20)	6,80 (1,90–8,00)	6,80 (1,90–8,80)	8,00 (3,00–9,20)	10,00 (2,90–11,50)
SEER		8,50 A+++	8,50 A+++	8,50 A+++	8,50 A+++	8,00 A+++	8,00 A+++	7,00 A+++	6,50 A+++
HEATING CAPACITY	Nominal (Min-Max)	4,20 (1,10–5,60)	4,60 (1,10–7,00)	5,60 (1,10–7,20)	6,80 (1,60–8,30)	8,50 (3,30–8,30)	8,50 (3,00–10,60)	9,40 (4,20–10,60)	12,00 (3,40–14,50)
SCOP		4,60 A++	4,60 A++	4,60 A++	4,20 A++	4,20 A++	4,20 A++	4,00 A++	4,00 A++

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MK2 Wall mounted : S-45/56/73/106MK2E5A

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MK2 series for bigger capacity (4,5 – 10,6kW) in Nov. 2017



- **Stylish Etherea design with mat white colour**
- **Slim design for all bigger capacity range**
HxWxD = 302 x1.120x236 mm for all range (4,5 – 10,6kW)
- **Air volume improved by max. 20% (4,5 kW)**
- **Easy & Quick maintenance**
Lighter weight, quick to remove units

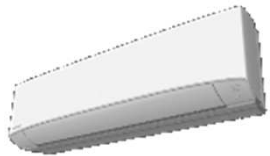


↑MK1 (4,5 kW – 10.6kW) conventional model

MK2 Wall mounted : Specification

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MK2 wall mounted



- Air volume improved by max. 20% (4,5 kW)
- Easy & Quick maintenance (Lighter weight & Quick unit removal)

Model		MK1				New MK2				
		S-45MK1E5A	S-56MK1E5A	S-73MK1E5A	S-106MK1E5A	S-45MK2E5A	S-56MK2E5A	S-73MK2E5A	S-106MK2E5A	
Power source		230 V / Single Phase / 50 Hz				230 V / Single Phase / 50 Hz				
Cooling capacity	kW	4,5	5,6	7,3	10,6	4,5	5,6	7,3	10,6	
Input power cooling	W	20	30	57	60	30	35	55	80	
Operating current cooling	A	0,26	0,35	0,58	0,62	0,32	0,35	0,51	0,7	
Heating capacity	kW	5,0	6,3	8,0	11,4	5,0	6,3	8,0	11,4	
Input power heating	W	20	30	57	68	30	35	55	80	
Operating current heating	A	0,26	0,35	0,58	0,7	0,32	0,35	0,51	0,7	
Air volume	Hi / Med / Lo	m³/min	12,0 / 10,5 / 8,5	14,0 / 12,0 / 10,5	18,0 / 14,5 / 11,5	19,0 / 16,5 / 13,0	14,5 / 12,5 / 10,0	16,0 / 14,0 / 12,0	19,5 / 17,0 / 14,0	21,5 / 18,5 / 15,0
		m³/min	—	—	—	—	14,5 / 12,5 / 10,0	16,0 / 14,0 / 12,0	19,5 / 17,0 / 14,0	21,5 / 18,5 / 15,0
Sound pressure	Hi / Med / Lo	dB(A)	38 / 34 / 30	40 / 36 / 32	47 / 44 / 40	49 / 45 / 42	38 / 35 / 33	40 / 37 / 35	47 / 44 / 40	49 / 46 / 42
Sound power	Hi / Med / Lo	dB	—	—	—	—	53 / 50 / 48	55 / 52 / 50	62 / 59 / 55	64 / 61 / 57
Dimensions	H x W x D	mm	300 x 1.065 x 230				302 x 1.120 x 236			
Net weight	kg		13	13	14,5	14,5	13	13	14	14

heating & cooling solutions

R32 PACi release in 2018

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May 2018

- R32 Outdoor unit : STD series (PZ) 100/125/140
- R32 Indoor unit : 4way cassette (PU2), Ceiling (PT2), Duct (PF2), Wall mounted (PK2)



November 2018

- R32 Outdoor unit : STD series (PZ) 60/71
DLX series (PZH) 36/50/60/71/100/125/140
- R32 Indoor unit : Mini 4 way cassette (PY2), Duct (PN2)




heating & cooling solutions

R32 PACi Outdoor unit : Model code

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- Elite model : U-****PZH2E5/8**, STD model : U-****PZ2E5/8**
- New line up : 1ph 14 kW in STD series

Capacity range			36	50	60	71	100	125	140	
R410A	Elite	1ph	U-36PE2E5A	U-50PE2E5A	U-60PE2E5A	U-71PE1E5A	U-100PE1E5A	U-125PE1E5A	U-140PE1E5A	
	PE1/2	3ph				U-71PE1E8A	U-100PE1E8A	U-125PE1E8A	U-140PE1E8A	
	STD	1ph			U-60PEY2E5	U-71PEY2E5	U-100PEY1E5	U-125PEY1E5		
	PEY1/2	3ph					U-100PEY1E8	U-125PEY1E8	U-140PEY1E8	
New R32 	Elite	1ph	U-36 PZH2E5	U-50 PZH2E5	U-60 PZH2E5	U-71 PZH2E5	U-100 PZH2E5	U-125 PZH2E5	U-140 PZH2E5	
	PZH2	3ph	Nov.18 →			U-60 PZH2E8	U-71 PZH2E8	U-100 PZH2E8	U-125 PZH2E8	U-140 PZH2E8
	STD	1ph			U-60 PZ2E5	U-71 PZ2E5	U-100 PZ2E5	U-125 PZ2E5	U-140 PZ2E5	
	PZ2	3ph					U-100 PZ2E8	U-125 PZ2E8	U-140 PZ2E8	


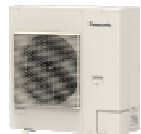
Apr.18 : 4way cassette (PU2), Ceiling (PT2), Duct (PF2), Wall mounted (PK2)




heating & cooling solutions

R32 STD PACi Outdoor “1 fan” chassis

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Compact outdoor model with 1 fan for all STD range (36 – 140)

Capacity	2.5HP	3HP	4HP	5HP	6HP
New R32 model					
Model Nr 1 ph 3 ph	U-60PZ2E5 -	U-71PZ2E5 -	U-100PZ2E5 U-100PZ2E8	U-125PZ2E5 U-125PZ2E8	New U-140PZ2E5 U-140PZ2E8
Dimension (mm)	H695 x W875 x D320		H996 x W980 x D370		
Weight (kg)	49		90	94	
Refrigerant amount (kg)	1.45		2.6	3.0	3.0

Current R410A model				
Dimension (mm)	H619 x W799 x D299	H996 x W940 x D340		1416x940x340
Weight (kg)	40	73	85	98

heating & cooling solutions

Aquarea Smart & Service Cloud

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The most advanced heating control for today and for the future
Aquarea connect to Cloud with CZ-TAW1, opening 2 different platforms

1 Aquarea Smart Cloud for End Users

Easy and powerful energy management.

The Aquarea Smart Cloud is much more than a simple thermostat 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.

Heating and DHW:

- Visualization & Control
- Scheduling
- Energy Statistics
- Malfunction notification



<https://aquarea-smart.panasonic.com/>

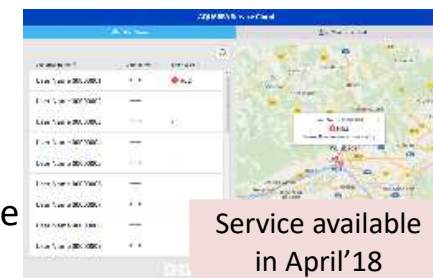
2 Aquarea Service Cloud for Installers/Maintenance

The real remote maintenance made simple

The Aquarea Service Cloud allows to installers to take care remotely of their customers heating systems. Saving time, money and shortening response time increasing customer satisfaction.

Functions:

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



<https://aquarea-service.panasonic.com/>

17 Languages available: French, Swedish, Norwegian, Danish, Finnish, German, English, Spanish, Italian, Dutch, Polish, Czech, Turkish, Hungarian, Croatian, Slovenia, Greek.

heating & cooling solutions

Advantages for User and Installer

Clear advantages for both End User and Installer:

Impact of Aquarea Service Cloud	Installer	End User
Sites visit reduced	Save time	Less intrusive maintenance
Quickest resolution	Happiest customer	Low disruption time
Resources optimization	Good resources allocation	Quickest service
Expand system lifespan	Longer maintenance	Bigger ROI

Some examples how the service can change common maintenance Works:

✓ Settings adjustments:

- In the event some customer claim about energy usage, discomfort temperature, ...
 - ↳ Remote setting can be done immediately without visiting the site

✓ Yearly or Preventive Maintenance:

- In case yearly maintenance prechecking can be done remotely.
 - ↳ Simplified maintenance on site
 - ↳ If some part needs to be replaced Installer can bring the part in only one visit.

✓ Reactive Maintenance

- Error is notified directly to maintenance Company, even before end user realize something is going wrong.
 - ↳ Problem can be fixed before is issue to end user.
- Diagnosis is done remotely
 - ↳ Visit at site can be avoided
 - ↳ Specific technical can assigned depending (electrical, refrigerant, hydraulic,...)

Aquarea Service Cloud

Panasonic BUSINESS

Home page: All users connected status at a glance
2 view options: Map view or list view only

AQUAREA Service Cloud

Map View Customer List

Customer name	Connection	Error code
Christoph Boris	On	H62
Harald Knut	On	
Joseph Markus	On	
Gustav Volker	On	
Mirko Heiner	On	
Gerhart Eckbert	On	
Johann Waldemar	On	
Niels Ottfried	On	
Hannes Lothar	On	

AQUAREA Service Cloud

Map View Customer List

Customer name	Device ID	Connection	Power	Error code	IDU Type	ODU Type
Christoph Boris	B123456777	On	On	H62	WH-SXC12H6E5	WH-UX12HE5
Harald Knut	B123456788	On	On		WH-SXC09H3E5	WH-UX09HE5
Joseph Markus	B123456790	On	On		WH-SXC09H3E5	WH-UX09HE5
Gustav Volker	B123456791	On	On		WH-SXC09H3E5	WH-UX09HE5
Mirko Heiner	B123456792	On	On		WH-SDC03H3E5	WH-UD03HE5
Gerhart Eckbert	B123456793	On	On		WH-SDC05H3E5	WH-UD05HE5
Johann Waldemar	B123456794	On	On		WH-SDC07H3E5	WH-UD07HE5
Niels Ottfried	B123456795	On	On		WH-SDC09H3E5	WH-UD09HE5
Hannes Lothar	B123456796	On	On		WH-SDC03H3E5	WH-UD03HE5

Selecting one unit the screen moves to the unit screen with different options:

AQUAREA Service Cloud

User information Status Statistics Data log Setting

heating & cooling solutions

Aquarea Service Cloud

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User information Tag: All user information
Error code with description and other 4 last error codes

The screenshot shows the 'User information' page in the Aquarea Service Cloud interface. The page is divided into sections for 'User', 'Device ID', and 'Unit'. The 'User' section contains fields for Name, Address, Phone number, E-mail, E-mail language, and Country. The 'Device ID' section shows the ID B123456777. The 'Unit' section shows details for IDU (WH-SXC12H6E5) and ODU (WH-UX12HE5), including their respective serial numbers. At the bottom, there are three buttons: 'Start maintenance', 'Approval request', and 'Service manual'.

Start maintenance notice to user



Request of maintenance to user



This screens are for communicating to end user about maintenance activity. There are 4 levels of access that ens user will authorize the installer, in some levels this screens will be used.

The screenshot shows the 'Error log' page in the Aquarea Service Cloud interface. It displays the 'Current error' with its code (H62) and a description. Below it, there are four 'Error log' entries, each showing the date and code. At the bottom, there are three buttons: 'Start maintenance', 'Approval request', and 'Service manual'.

Aquarea Service Cloud

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Status tag

Current status of unit up to 28 parameters

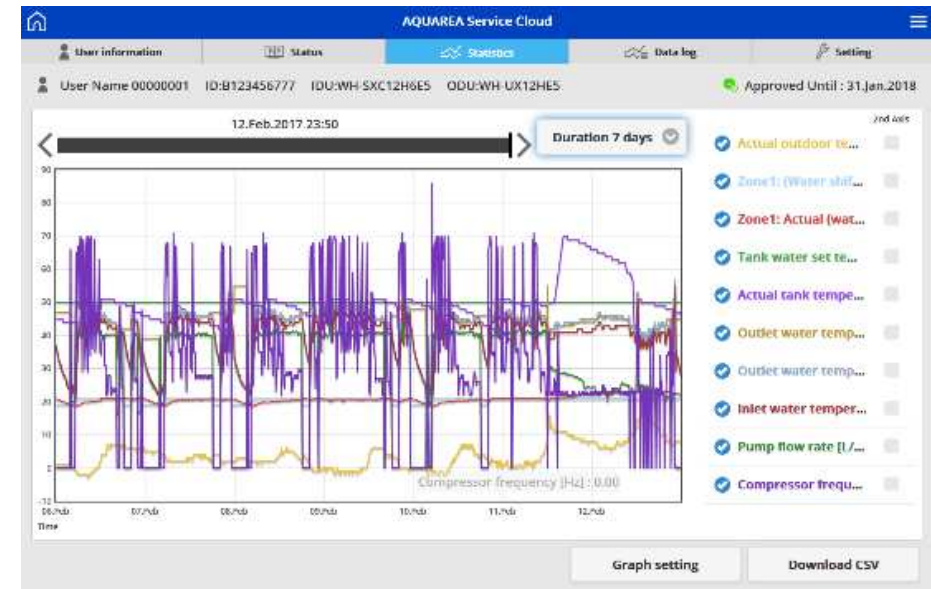


Statistics tag

Customisable statistics up to 73 parameters

Available anytime with the information of last 7 days

Data can be export to CSV



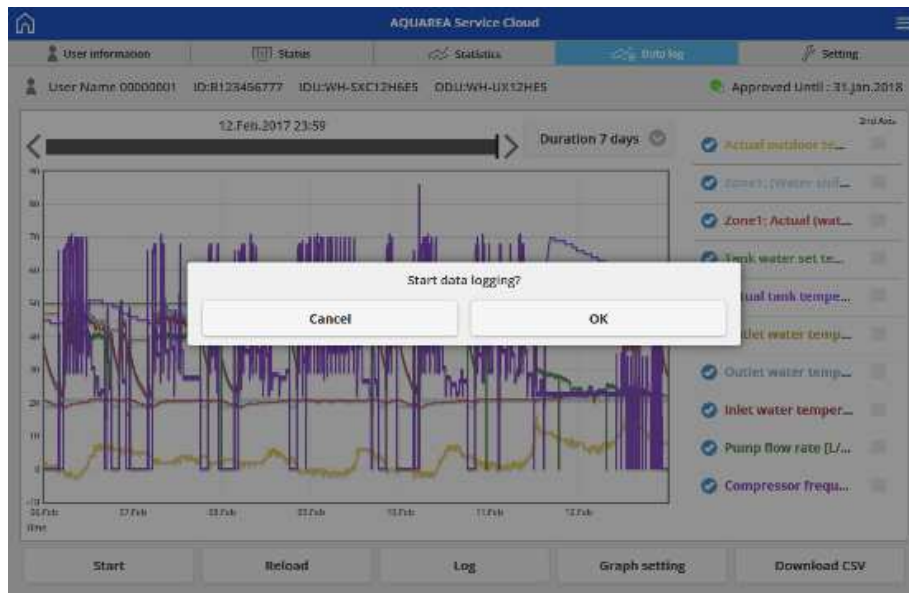
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Aquarea Service Cloud

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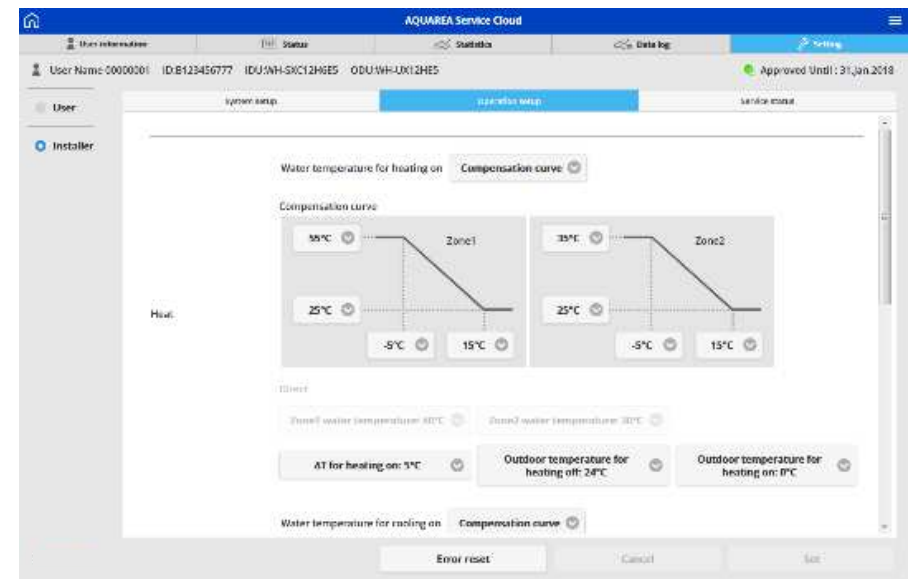
Data log tag

When activate can record same as statistic function but every 30''



Settings tag

Full settings of system remotely including user and installer settings



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Activation Aquarea Service Cloud

① Requirements

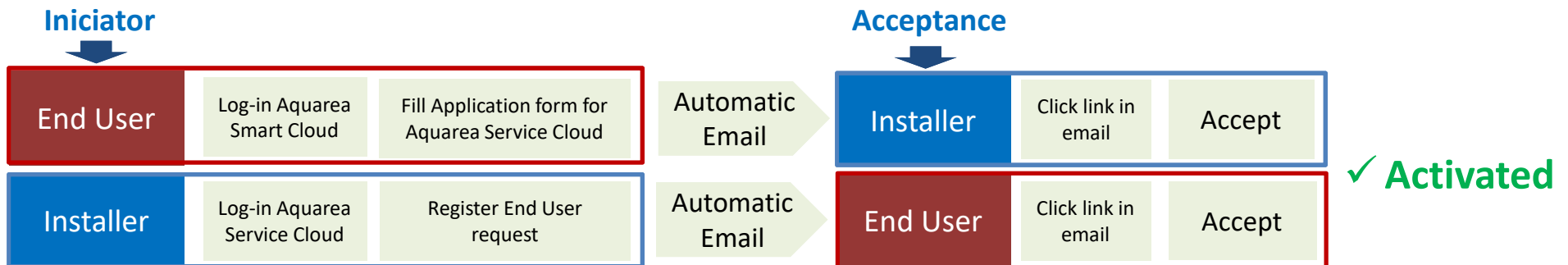
Hardware and connection	End User Registration	Installer/Maintenance Registration
1. H Generation Aquarea connected to CZ-TAW1	1. Get Panasonic ID	1. Get Service ID
2. In house internet connection with Wireless LAN or Wired LAN	2. Aquarea Smart Cloud	2. Aquarea Service Cloud

End user registration: <https://aquarea-smart.panasonic.com/>

Installer registration: <https://aquarea-service.panasonic.com/>

② Connecting unit to installer/maintenance


Process can be initiated either both by End User or by Installer



Whenever End User can select/change level of control is giving to installer (4 levels)

4 Levels of Access by installer

End User select among 4 levels of Access to its installer/maintenance



	Status	Statistics	Data Log	Setting
① Full Access	✓	✓	✓	✓
② Monitor + Control	✓	-	-	✓
③ Monitor Only	✓	-	-	Only see not change
④ On Request	-	-	-	-

Installer can request temporary access to the menus not accesible at his initial level .

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