
JCH IOT Solutions Residential & Light Commercial 2024

PRODUCT DEVELOPMENT EUROPE

Cooling & Heating

air

JCH IOT SOLUTIONS: Residential & Light commercial 2024

PRODUCTS		Residential applications		Commercial applications	
		airCloud Go (ex airCloud Home)	CSNET Home	airCloud Pro	CSNET Manager or CSNET Lite
		airCloud Go mobile App for iOS and Android	CSNET Home mobile Apps (iOS & Android) CSNET Home Web App CSNET Home PRO Web App	airCloud Pro mobile App for iOS and Android	CSNET Manager App v2.1.1
RAC Legacy	RAC IDU R410A	SPX-WFG02	x	PSC-6RAD or SPX-RAMHLK (5)	PSC-6RAD or SPX-RAMHLK (5)
	RAC IDU R32	SPX-WFG02	x	PSC-6RAD or SPX-RAMHLK (5)	PSC-6RAD or SPX-RAMHLK (5)
airHome range	airHome 2022 (wall type)	Built-in WiFi adapter	x	PSC-6RAD or SPX-RAMHLK (5)	PSC-6RAD or SPX-RAMHLK (5)
	airHome 2024 (wall type)	Built-in WiFi adapter	x	to be confirmed	to be confirmed
	airHome 2024 (duct, cass, floor)	SPX-WFG03 (1)	x	to be confirmed	to be confirmed
YUTAMPO	YUTAMPO Tank unit	x	ATW-HCD-01 + ATW-IOT-01 (2)	x	ATW-HCD-01
YUTAKI range	YUTAKI 2010~2015	x	x	x	Direct HLINK connection (6)
	YUTAKI 2016~2020	x	ATW-IOT-01	x	Direct HLINK connection
	YUTAKI from 2021	x	ATW-IOT-01	x	Direct HLINK connection
	Cascade controller	x	x (3)	x	Direct HLINK connection
PRIMAIRY range	Primary units R410A or R32 with HLINK adapter	HCAA01NEWI (4) + SPX-WFG02	x	HCAA01NEWI (4)	HCAA01NEWI (4)
Utopia range	Prime & Ivx	x	x	Direct Hlink connection	Direct Hlink connection

Notes

(1): SPX-WFG03 is a new WiFi gateway dedicated to airHome indoor units to be released in 2024. Similar hardware as SPX-WFG02, with additional safety feature for airHome units.

(2): ATW-HCD-01 has been updated to get the compatibility of Yutampo units with CSNET Home (firmware version H-0306, applied on production from end september 2023)

(3): CSNET Home system is currently not compatible with Cascade Controller, software updates are necessary to get this compatibility. This is expected with the next update of CSNET Home system (version 1.2, time to market to be confirmed).

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(5): Standard RAC indoor units can be connected to HLINK using the adaptor PSC-6RAD (one adaptor per indoor unit). Multi systems can be connected to HLINK using the multi adaptor SPX-RAMHLK connected to the Multi Outdoor unit.
The compatibility of the new airHome Multi range with these adaptors has to be confirmed.

(6): Old Yutaki units manufactured between 2010 and 2015 can be connected to CSNET Manager through the HLINK line if they are updated with the last firmware versions available. Refer to the APN of CSNET Manager v2.0 for details.
(EG-2020010_r1-CSNET manager software v2.0 revised.pdf, July 2021)

JCH IOT SOLUTIONS: Focus on Multi + Yutampo

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Standard Multi + Yutampo	RAC IDU R410A	SPX-WFG02	x	PSC-6RAD or SPX-RAMHLK (3)
	RAC IDU R32	SPX-WFG02	x	PSC-6RAD or SPX-RAMHLK (3)
	Yutampo tank	x	ATW-HCD-01 + ATW-IOT-01 (2)	ATW-HCD-01
airHome R32 Multi (2024) + Yutampo	airHome 2024 (wall type)	Built-in WiFi adapter	x	To be confirmed
	airHome 2024 (duct, cass, floor)	SPX-WFG03 (1)	x	To be confirmed
	YUTAMPO Tank unit	x	ATW-HCD-01 + ATW-IOT-01 (2)	ATW-HCD-01

Notes:

As of december 2023, the control of Multi + Yutampo systems has to be done using 2 applications: airCloud Go for the RAC air-to-air units, CSNET Home for the Yutampo Tank.
There is a project to integrate Yutampo in airCloud Go system, but so far this is postponed to 2025.

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The compatibility of the new airHome Multi range with these adaptors has to be confirmed.

2024 is a transition period for the specific IOT solution for Multi + Yutampo systems.

2 different Apps have to be used to control such system:

- airCloud Go for Air-to-air indoor units
- CSNET Home for the Yutampo tank.

01

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airCloud Go

RAC air-to-air units

air

airCloud Go



airCloud Home is becoming airCloud Go

- **From November 2023**, airCloud Home is renamed as **airCloud Go** to match the last market trends:
- App used for light commercial and small business building
- Not only dedicated to RAC ranges but also to some PAC units
- **airCloud Home** v3.1.2 is available on the Apple and Google Play stores from 23rd of November 2023:
- airCloud Home name remains on the store so far
- Once installed, the name change is informed to the user, the app is now named airCloud Go

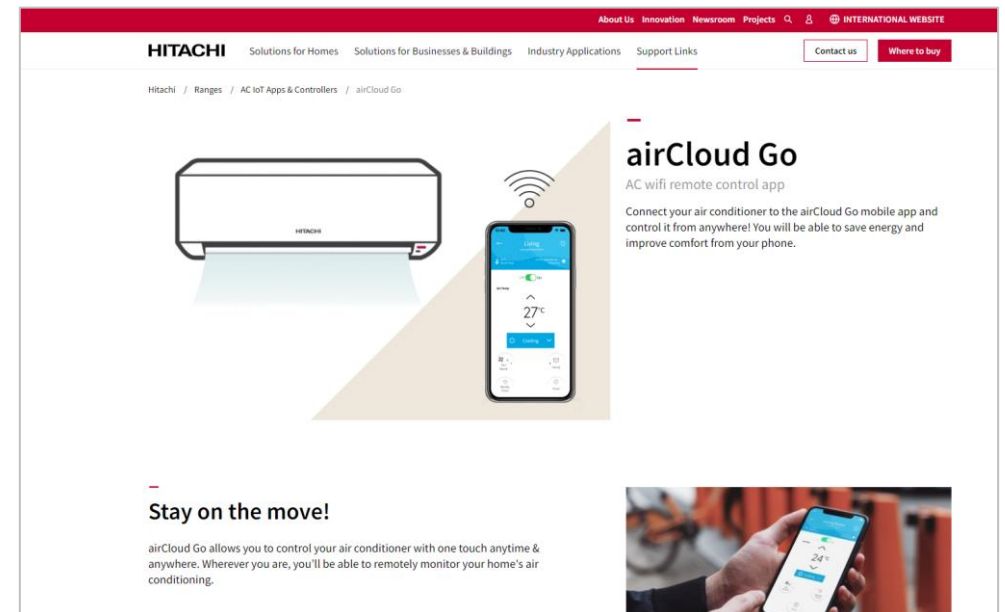
airCloud Go version 3.2.1

The functions and features of airCloud Home v3.1 remain available, with the following changes:

- Compatibility with some new RAC and PAC units not sold in EU
- Create account – mobile phone country code restriction to main business areas
- Customer Care contact details updates (not for Europe)
- Localization changes related to rebranding airCloud Home to airCloud Go, including 'Privacy Policy' and 'Terms and Conditions' updates
- Removing user manual download button in Help Section
- Bugs fixes

The international website promoting airCloud Home has also be updated:

<https://www.hitachiaircon.com/ranges/iot-apps-controllers/aircloud-go-app>

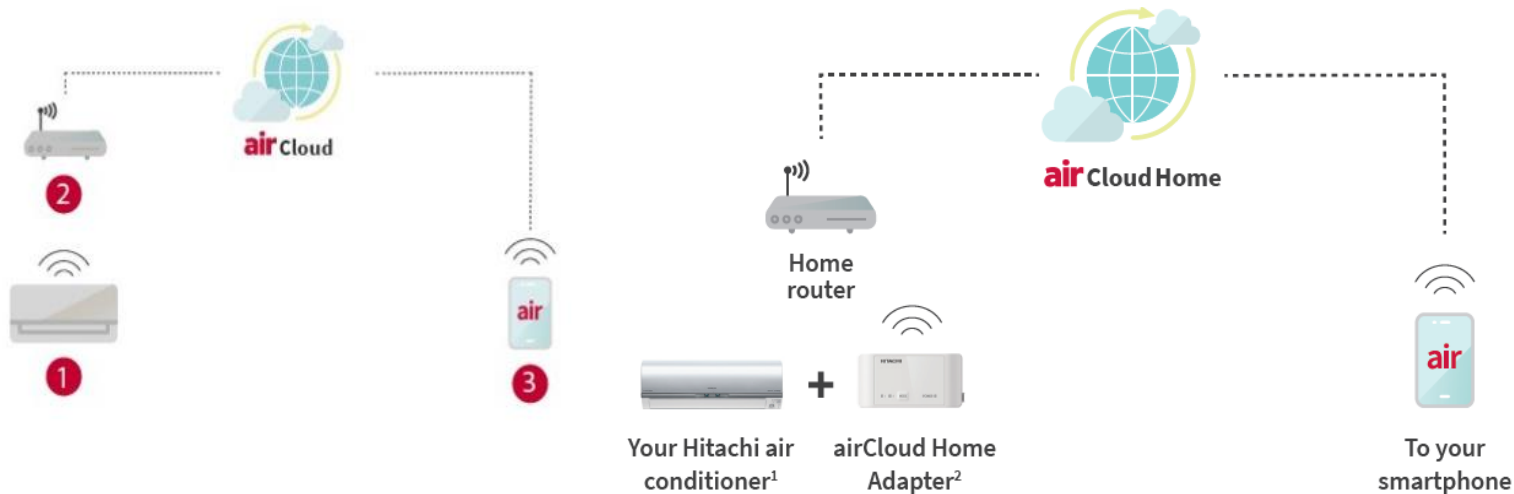


airCloud Go version 3.2.1

General concept of airCloud Home / Go system

How airCloud Home works

Connect your air conditioner to the cloud,
via your home wireless network.



The latest RAC Wall type indoor units have a built-in Wi-Fi adapter and can get connected directly to airCloud server, without the external adapter.



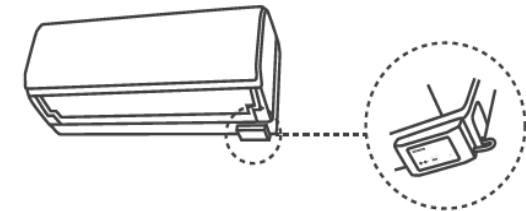
visit airclouhome.com

Older Wall type indoor units, cassette, duct and floor units can be connected to airCloud using the external WiFi adapter SPX-WFG02.

airCloud Adapter

Discreet and easy to install

- airCloud Adapter² is placed onto the bottom of your air conditioner. This connects to the cloud, via your home network.
- The process is quick, and once installed, the user can quickly pair with the app via QR code.
- No additional power source is required.
- Small discreet unit: D40*L80*H16.5mm.



¹ Compatibility of air conditioner model with airCloud Home shall be confirmed with your Hitachi Cooling & Heating representative.

² airCloud Home Adapter SPX-WFG02 is available as an accessory.

airCloud home / airCloud Go

System specifications

Specifications	airCloud Home SPX-WFG02 or built-in device
Max. number of unit	1:1 (1 device to 1 IDU)
Wi-Fi Adapter	Max 10 Wi-Fi adapters can be used with 1 router (*1)
Max User	1 owner can add up 20 users including himself (*2)
Max RAC Unit	Max 20 units for one « Home » (*3)
Compatibility : Unit Type	Hitachi Room Air Conditioners
Power	12V 150mA DC (from IDU PCB)
Wireless LAN Standard	IEEE 802.11 b/g/n
Security	WEP / WPA / WPA2 / Open
Configuration	AP & WPS
Antenna	Integrated Antenna
Index Protection rating	IP 30
Operating Temperature	+5°C to 35°C
Pollution Category	Class 2
Operating Humidity	30% ~ 80 %
Frequency used & max power used	2.400 GHz – 2.485 GHz / erp < 100mW (*4)

(*1) Max quantity of units per Wi-Fi network:

This limit of 10 devices per Wi-Fi network is really linked to the capacity of the DSL router (standard DSL routers used in EU shall be able to control more than 10 devices without any problem). This is not a limitation on airCloud Home App or server.

(*2) Maximum qty of users per account:

1 user can invite users to his system. it is recommended to limit the number of users to 20 for one system.

(*3) Maximum qty of units per Home:

In a first step, no limitation was indicated. Now with the experience on site, it is recommended to limit the number of units to 20 for one “Home” (one installation). Do not forget that one user can access to several homes, so if more than 20 units have to be controlled by the same user, these 20+X units can be split in 2 groups, on 2 different installations.

(*4) Wi-Fi signal compatibility

SPX-WFG02 adapter and the built-in adapter of airHome units are compatible ONLY with 2,4 GHz Wi-Fi signals, they cannot connect to 5 GHz signals.

Make sure the 2,4 GHz signal is well activated on the DSL router if airCloud home device have to be installed.

In case of mixed Wi-Fi signal (2,4 + 5 GHz using the same SSID), from airCloud Home v3.0.5 (Sept 2021), it is no longer necessary to connect the smartphone specifically to the 2,4 GHz signal when doing the discovery procedure.

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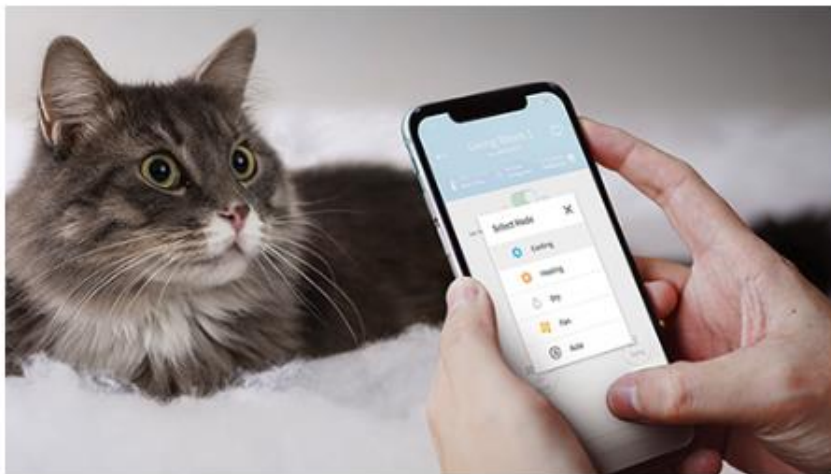
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airCloud Go version 3.2.1

Stay on the move!

airCloud Go allows you to control your air conditioner with one touch anytime & anywhere. Wherever you are, you'll be able to remotely monitor your home's air conditioning.



Air conditioner Wi-Fi remote app with intuitive interface

airCloud Go includes various options to adjust the atmosphere to your preference:

- Selection of operation mode
- Set temperature, fan speed and louver position
- Programmable thermostat with On/Off timer & weekly timer
- Shortcut to turn on/off all connected air conditioners at once

airCloud Go version 3.2.1

Smart-Fence: automated comfort as you come & go

Link your air conditioner to your phone's location and let the AC adapt to your moves:

- **Arriving Home: Welcoming atmosphere** - Your aircon will automatically turn on, helping to create a comfortable indoor climate before you open the front door.
- **Leaving Home: Effortless energy savings** - You won't need to remember to turn off your AC! Your air conditioner will stop or switch to a more economic preset temperature for optimal energy efficiency""



Take control of your energy consumption*

The energy cost estimator provides many functions to help you save energy costs

- Track your energy usage history. You can focus and compare different periods and/or each air conditioner's estimated consumption.
- Convert your consumption into costs. You can enter off peak and peak hours' energy price for more adjusted estimation.
- Enter your monthly budget and receive alerts when your estimated consumption approaches the target.

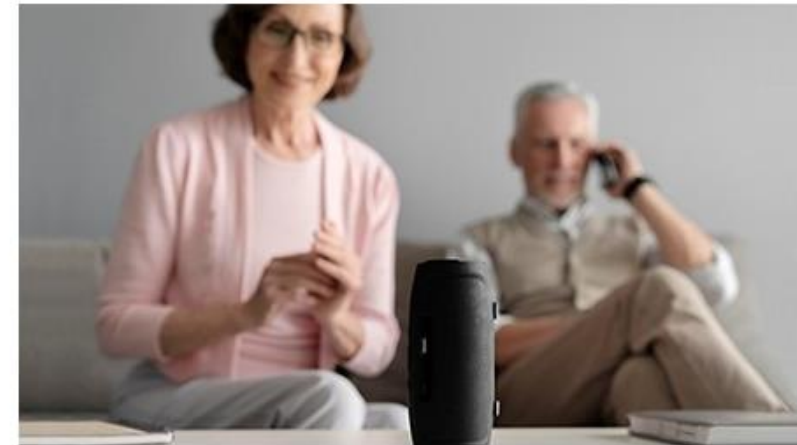
airCloud Go version 3.2.1

Voice command: speak to your air conditioner!

Google Home and Amazon Echo are compatible with airCloud Go. You no longer need to find the remote control to change the temperature or turn on your air conditioner.

Supported languages:

- Amazon Echo: English, French, Italian, Spanish, German
- Google Home: English, French, Italian, Spanish, German, Portuguese-BR, Dutch, Danish, Swedish, Thai, Chinese (Traditional), Indonesian



Easy set up

airCloud Go connection is achieved via wifi network^[1]

Simplified configuration process is supported with clear step-by-step instructions. Air conditioner pairing can be made by QR code.

airCloud Go Additional benefits



Share access with your relatives

You can invite up to 20 users to access and control your air conditioners. Restrictions can be customized for children and guests.



Unlimited number of Acs

airCloud Go can pair with an unlimited number of air conditioners and homes.



21 languages

App available in English, French, Italian, Spanish, German, Portuguese, Dutch, Danish, Swedish, Thai, Chinese (Traditional & Simplified), Indonesia, Polish, Hungarian, Czech, Romanian, Greek, Croatian, Slovenian, Vietnamese, Malay



Error code display

In case of AC malfunction, an error code will be displayed to ease the servicing of your equipment.



FrostWash activation

With airCloud Go, you can activate the FrostWash self-cleaning function while you're away and contribute to preserving your indoor air quality.

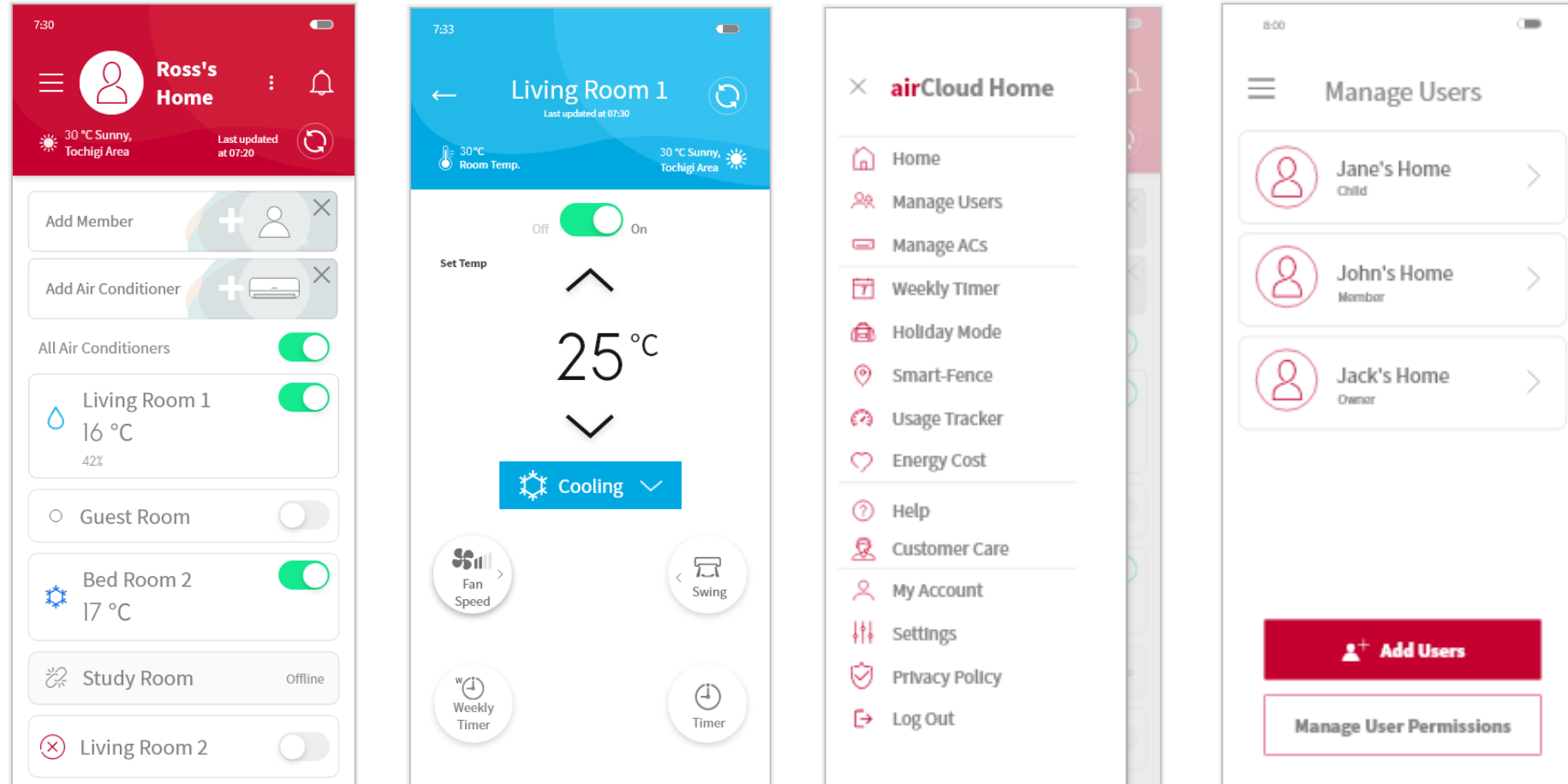


Your security is our priority

Only a minimal amount of personal data is required to set up your account.

airCloud home / airCloud Go

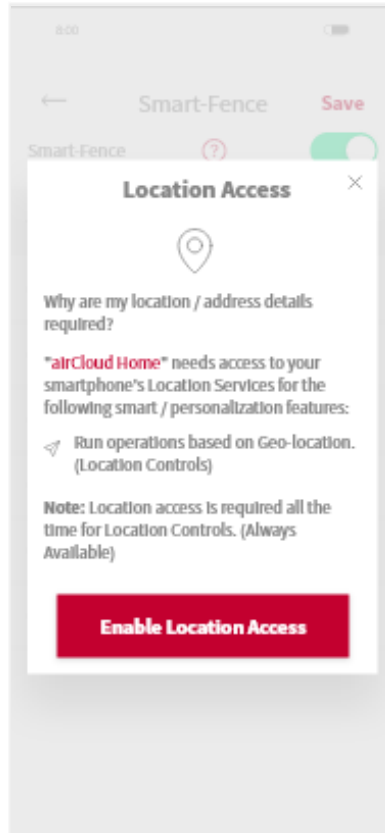
App overview



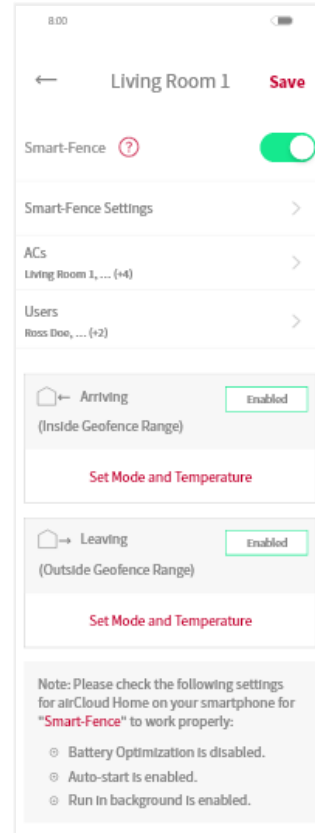
airCloud home / airCloud Go

App overview - Geofencing

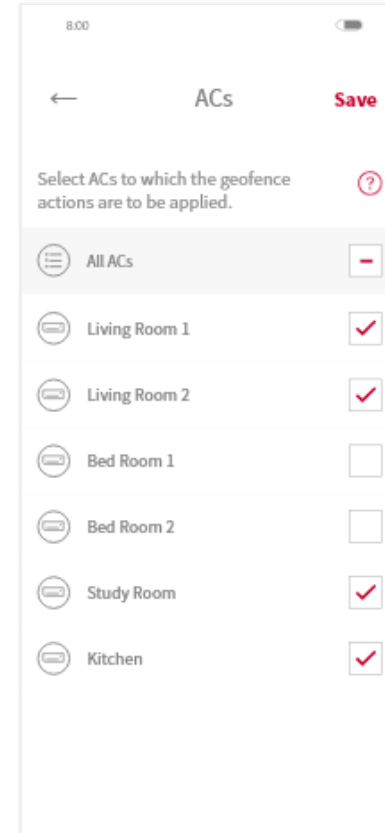
Users can the location control, so that when they are getting close or away from this location, orders can be applied to the A/C units.



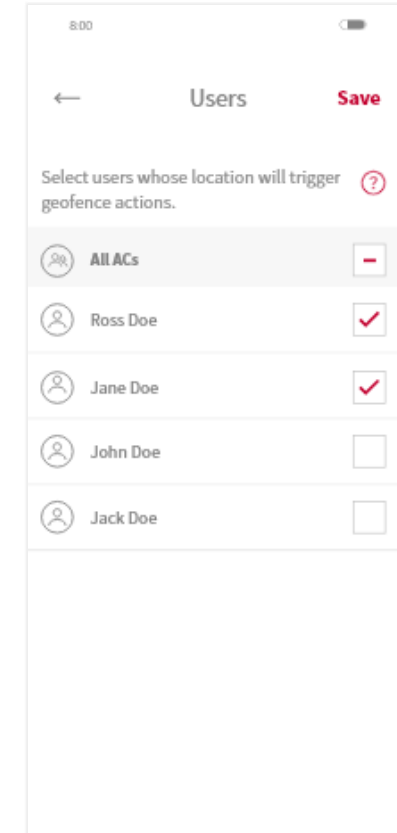
Location Access popup



Smart-Fence Arriving & Leaving Enabled



Select units for the fencing control

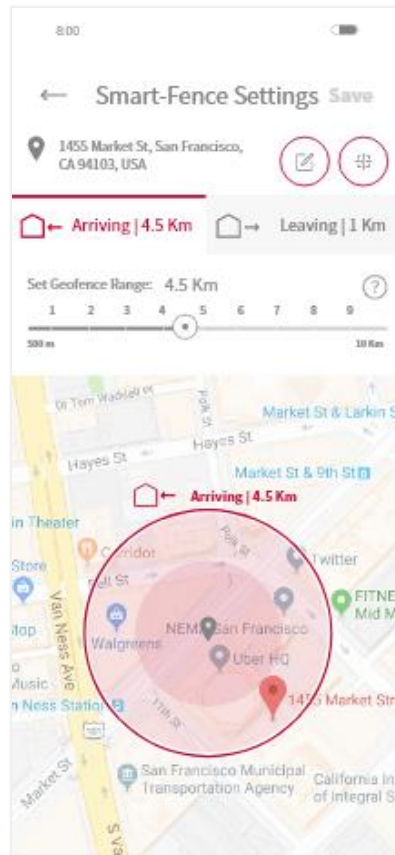


Select Users whose location will trigger geofence actions

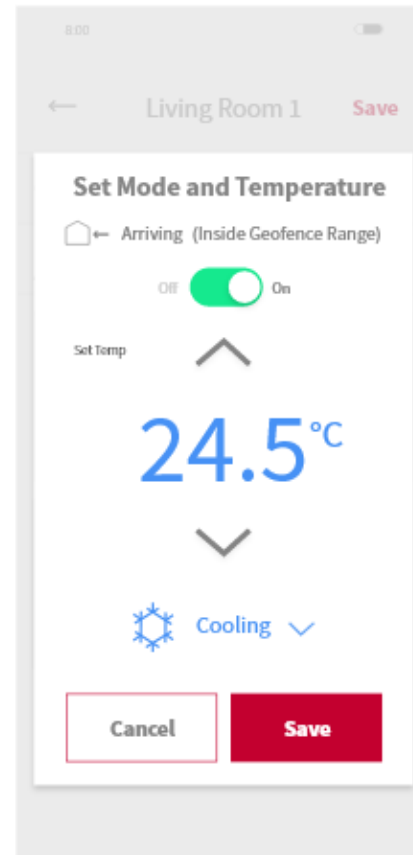
airCloud home / airCloud Go

App overview - Geofencing

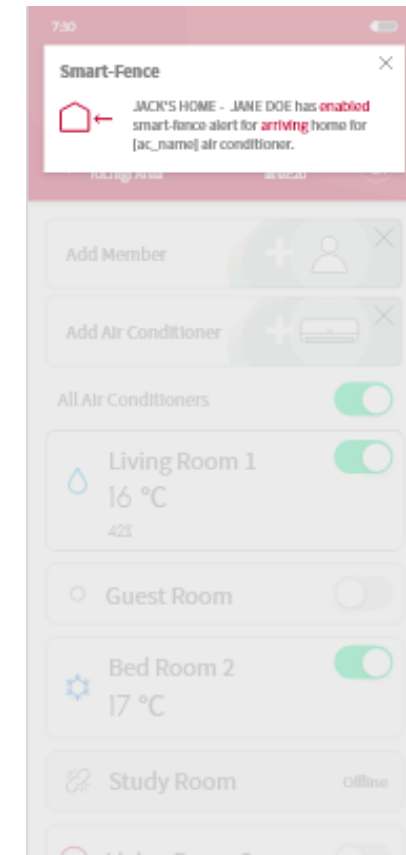
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Smart-Fence Settings



Set Mode & Temperature for Arriving (Inside geofence range)



Push Notification – When user has enabled smart-fence alert for arriving home

airCloud home / airCloud Go

Compatibility with voice controllers



Command with your voice

Connect with your smart speaker.

airCloud Home is fully-compatible with Amazon Alexa and Google Assistant, enabling you to change the temperature hands-free while you cook, clean, or exercise.



Amazon Echo



Google Home



Forgot to turn off the AC?

Worry no more.

With airCloud Home, you can control your air conditioning with one touch, even while away from your home.



Cooling & Heating

02

CSNET HOME

Residential air-to-water units Yutaki & Yutampo

Cooling & Heating

air

IoT solution for Heating range

New IoT solution for our Air-to-Water range: **CSNET Home** App + **ATW-IOT-01**

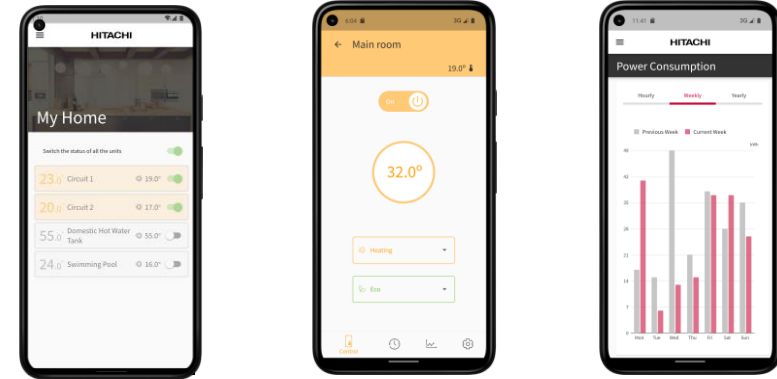


New gateway **ATW-IOT-01**:



- Same aspect as ATW-TAG-02 but with a new device inside
- WiFi gateway developed by JCH-ES
- Only one gateway to connect the Yutaki unit to the cloud
- Pairing procedure to the house WiFi using Bluetooth
- No physical action required on the gateway to reset it / set pairing mode
- Remote update is possible
- Competitive cost

New App: **CSNET Home**



- Web and mobile Apps dedicated to end user (like Hi-Kumo)
- Apps dedicated to Yutaki units only in a first step
- Standard end user features in a first step (~Hi-Kumo)
- Features dedicated to Service & Maintenance (like Hi-Kumo Pro) in a second step within June 2023 (testing in progress...)
- Additional features and extended setting functions will be released in a 3rd step, with the new Yutaki R32 range (to be confirmed for FY24-Q1) ¹⁹

IoT solution for Heating range

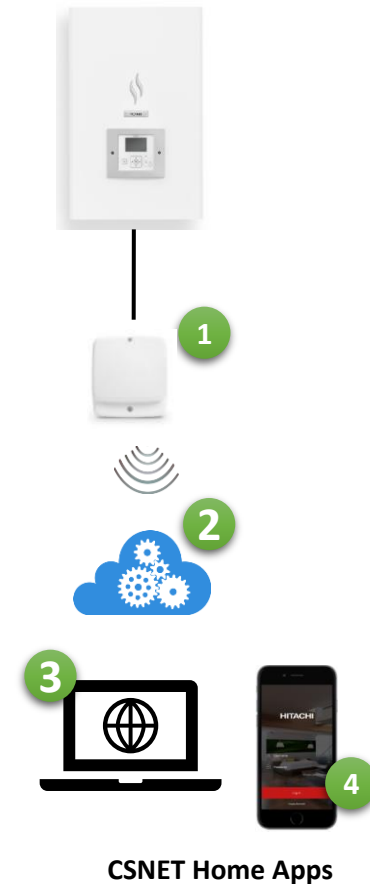
A new home automation solution developed and managed by JCH-ES

- Wi-Fi gateway hardware and firmware developed by JCH-ES
- ATW-IOT-01 is manufactured in Spain by a supplier of JCH-ES
- Cloud solution based on AWS services and managed by JCH-ES
- Mobile and Web applications developed internally by JCH-ES

ATW-IOT-01 and CSNET Home are dedicated to the Heating range:

- Yutaki units in a first step (all models from 2016)
- Yutampo can be managed with an updated ATW-HCD-01
- Cascade controller and systems with more than 2 Yutaki units will be compatible in a second step (FY24-Q1)
- No compatibility with any air-to-air unit (RAC, VRF etc....)

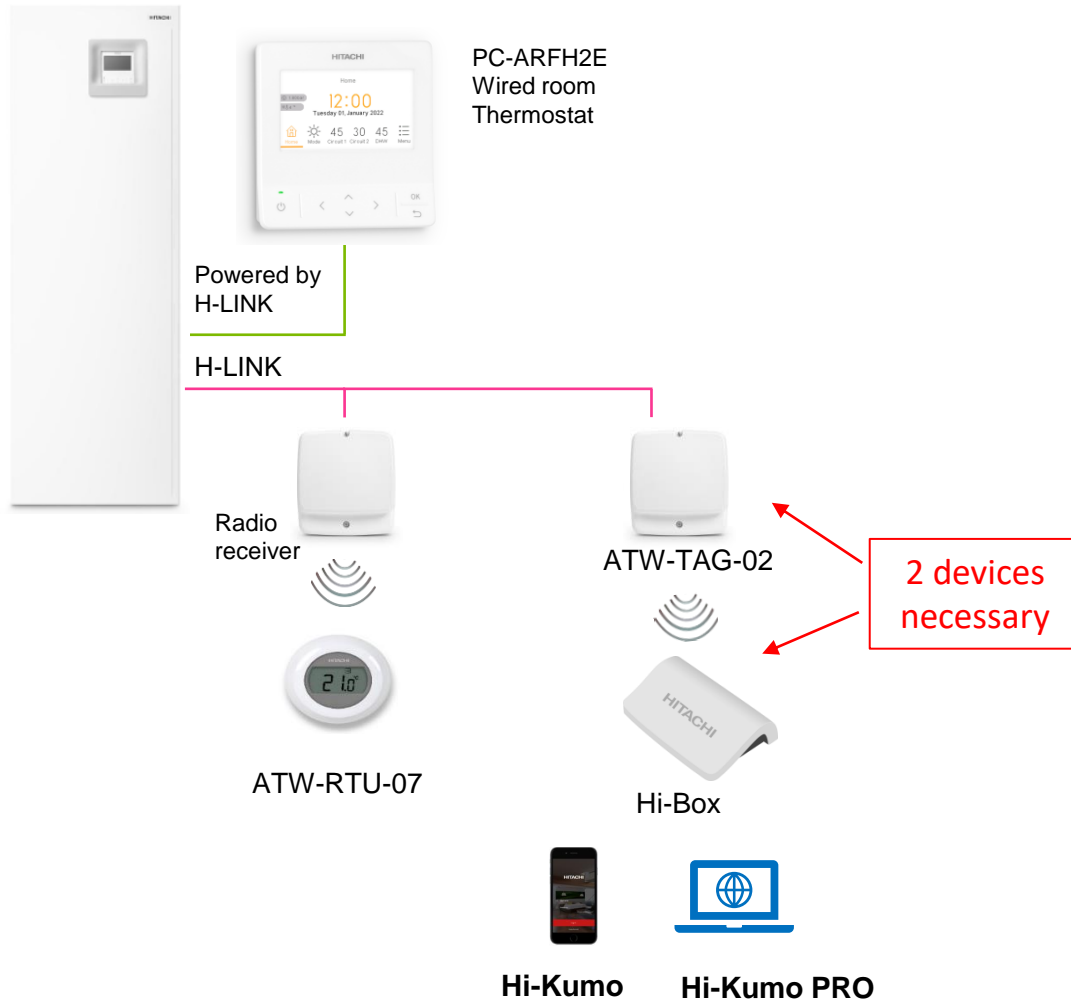
- 1: ATW-IOT-01 gateway
- 2: new cloud developed by JCH-ES
- 3 : Web App for end user or service
- 4: Mobile Apps (iOS / Android)



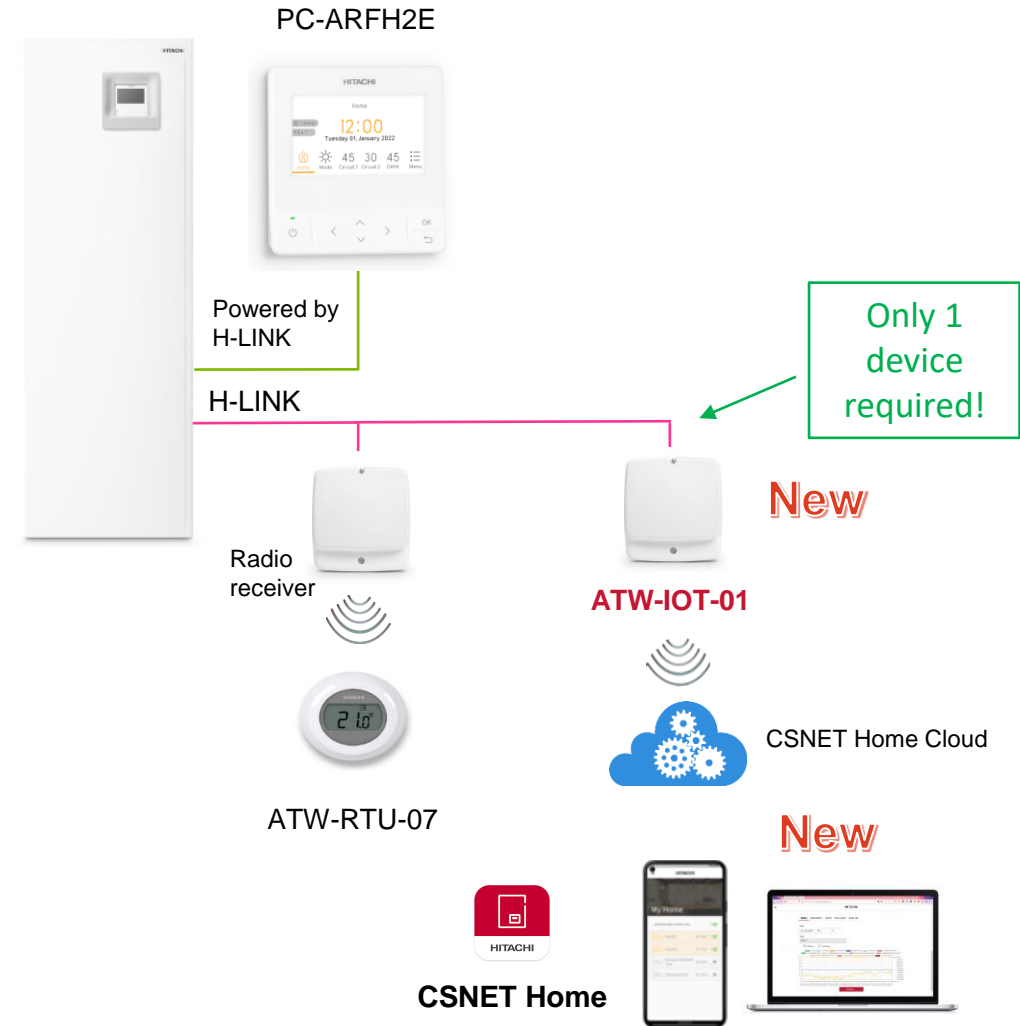
IoT solution for Heating range

Connection diagrams

Previous Hi-Kumo solution:



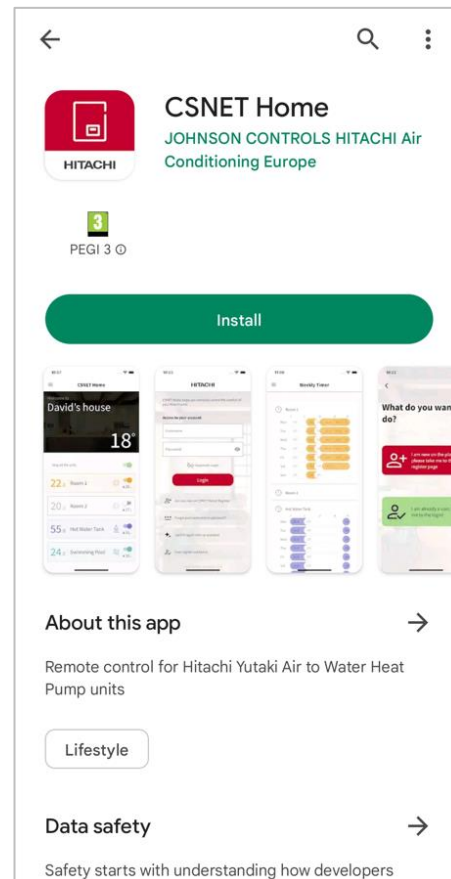
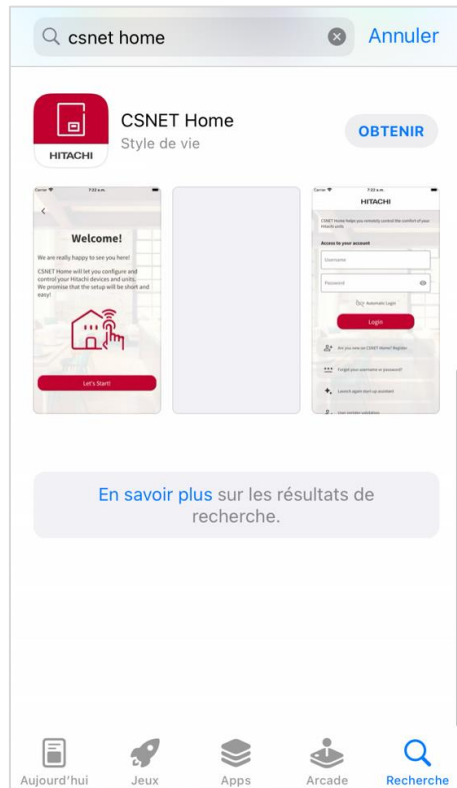
New CSNET Home solution:



CSNET Home Apps

Current CSNET Home mobile Apps v1.1 on the stores

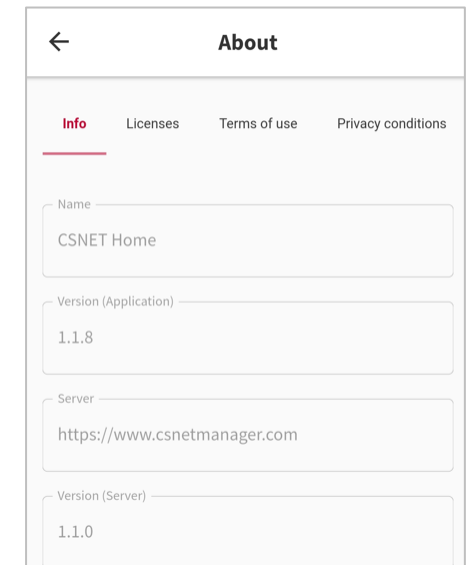
The release is done **without any limitation** related to the country or area of the world (175 countries targeted for iOS, 174 for Android).



Minimum O.S. versions for CSNET Home v1.1

Apple devices: **iOS 15** (iPhone 6 SE)

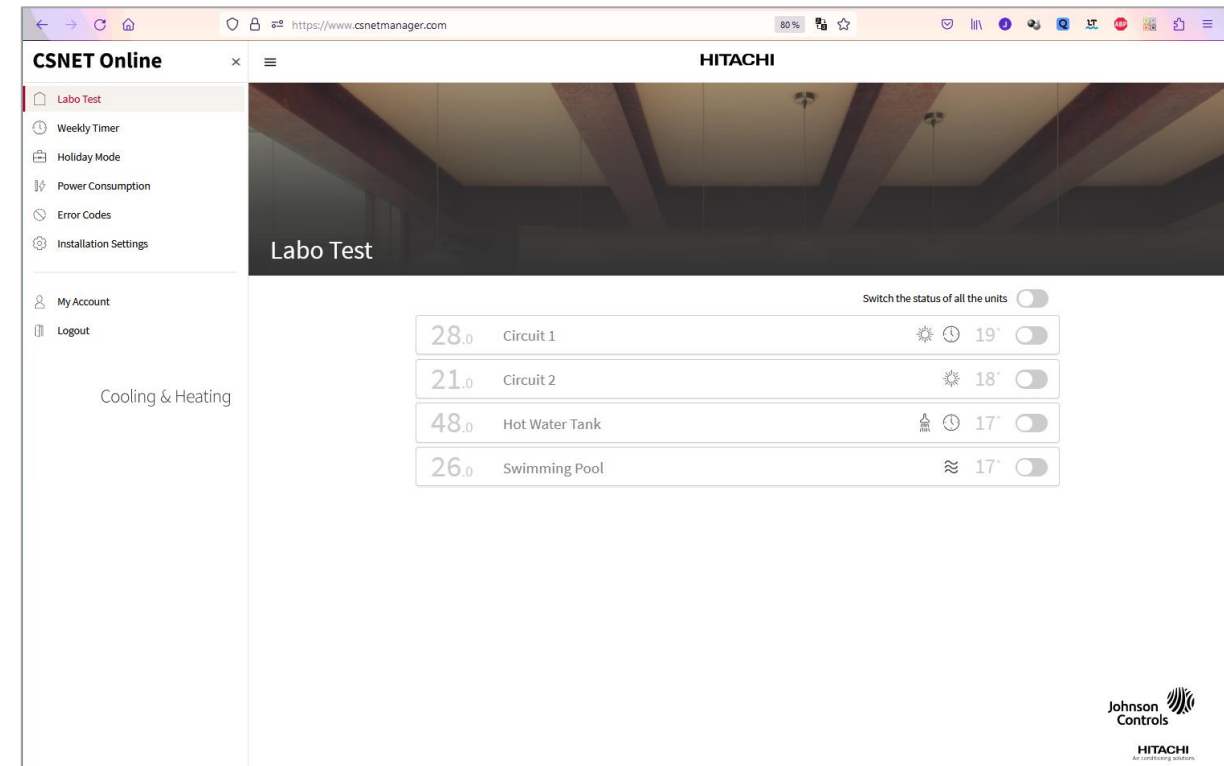
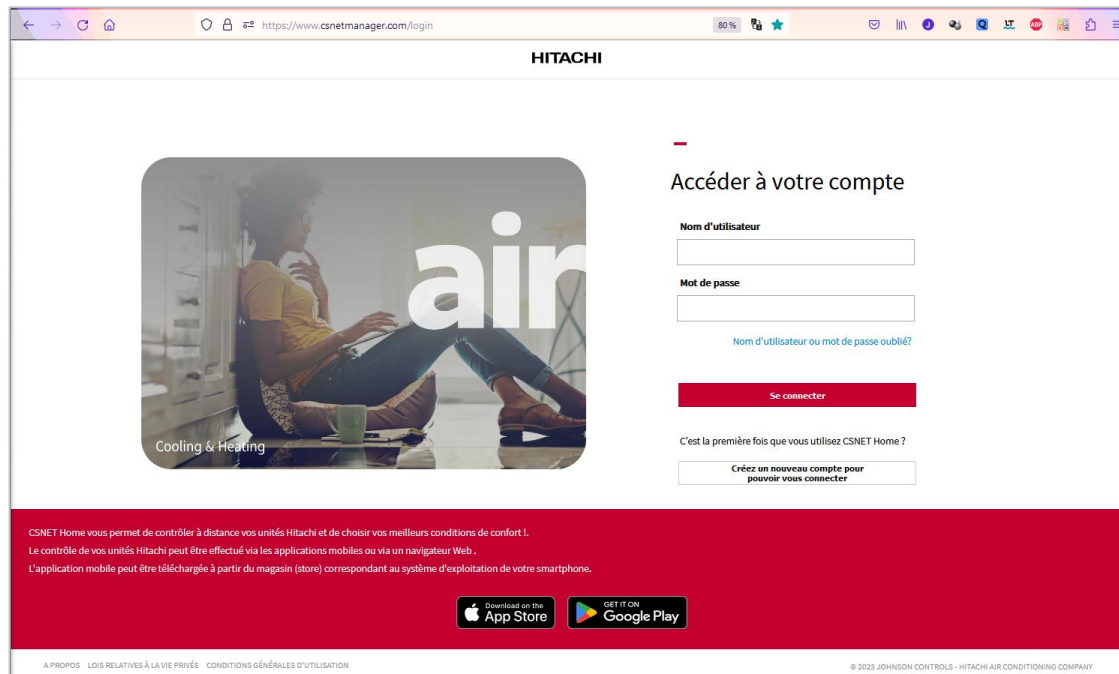
Android devices: **Android 8**



CSNET Home Apps

WEB APP

The Web App is also available from the following URL: <https://www.csnetmanager.com/login>



Limitations of the Web App :

- Discovery of ATW-IOT-01 cannot be managed from Web App
- Weekly Timer wizard is not available

Presentation of ATW-IOT-01

Product details

Item	Specifications
Power supply	230V/50Hz (30mA)
Power consumption	7W (maximum)
Outer dimensions	Width: 123 mm, Depth:115 mm, Height: 37 mm
Weight	214g
Assembling conditions	Indoor
Ambient temperature	0~40 °C
Humidity	30% ~ 90% Relative Humidity, Non-Condensing
Equipment protection rating	IP21
Maximum altitude for use	< 2000m
Wi-Fi	2.4 GHz Wi-Fi (IEEE 802.11 b/g/n) (2412 ~ 2484 MHz)
Bluetooth	5 (LE) (2402~2480 MHz)
H-Link	Communication line: Use 0.75mm ² cable, 2-Conductor, Stranded Copper Communication system: Half-duplex Communication method: Asynchronous Transmission Speed: 9,600 bauds Wiring length: 1,000m maximum (total length of H-LINK I/O bus)
Maximum quantity of ATW-IOT-01 per H-LINK line	1



Product reference	Product description	Factory code	Vendor
ATW-IOT-01	WiFi IOT gateway for Heating range	7C549970	JCH-ES

Presentation of ATW-IOT-01

Additional specifications

Specifications	CSNET Home	Hi-Kumo Hi-Box
Gateway reference	ATW-IOT-01	ATW-TAG-02
Unit per gateway	1 to 1	1 to 1
Max qty of Heating units per installation	2	1
Max qty of installations created from one user account	10	-
Max qty of invitations received or sent by one user to access to other installations	unlimited	-
Max qty gateway per Wi-Fi network	Depends on DSL router specifications	-
Dimensions (mm)	123 x 115 x 37	
Gateway type	Additional accessory	
Power source	220 V L+N	
Server	AWS (server located in EU)	JCH-EU Overkiz - France
Wi-Fi signal compatibility	2,4 GHz only	-
Web App	Yes	Beta version only
Mobile App	iOs 14+ Android 8+	iOS 8+ Android 5+
Firmware Remote update	Yes	No

Servers:

The servers for CSNET Home and for Hi-Kumo are completely independent, without any link between them. Hence CSNET Home and Hi-Kumo are not compatible (Apps and gateways).

Gateway and maximum quantity of units per installation:

One gateway ATW-IOT-01 can control one Heating unit. From first release, CSNET Home App can manage 2 x ATW-IOT-01 gateways per installation, so up to 2 Yutaki units can be linked to the default installation of one user account (user's home).

Users per account:

The owner of one account (main user) can create up to 10 installations, each installation containing up to 2 x Heating units.
One user can invite an unlimited quantity of users to his installation(s), and each user can be invited by other users in the same way. See next slide for details.

WiFi signal compatibility:

ATW-IOT-01 gateway is only compatible with WiFi networks based on the 2,4 GHz signal. This gateway cannot be paired to 5 GHz WiFi networks.
Nowadays, all the DSL routers are dual band devices, using both Wi-Fi Signals, meaning 2,4 GHz signal shall always be available.
If 5 and 2,4 GHz signals are mixed, using the same network name (e.g. the same SSID), ATW-IOT-01 can be paired to that signal, it is not necessary to separate the 5 and 2,4 GHz signals.
In case of WiFi 6 routers, make sure the 2,4 GHz signal is activated to let the gateway get connected to the related WiFi network.

Presentation of ATW-IOT-01

Compatibility list – YUTAKI range

YUTAKI M Standard	7E351016	RASM-2.0VRE
	7E351005 / 7E351026	RASM-3V(N)(R)E
	7E351007 / 7E351107	RASM-4(V)NE
	7E351008 / 7E351108	RASM-5(V)NE
	7E351009 / 7E351109	RASM-6(V)NE
	7E352007 / 7E352107	RASM-4(V)R1E
	7E352008 / 7E352108	RASM-5(V)R1E
	7E352009 / 7E352109	RASM-6(V)R1E
YUTAKI S	7E352158	RASM-7R1E
	7E475003 / 7E475103 / 7E475203 / 7E475303	RWM-2.0N(R)E(-W)
	7E475003 / 7E475103 / 7E475204 / 7E475304	RWM-2.5N(R)E(-W)
	7E475003 / 7E475103 / 7E475205 / 7E475305	RWM-3.0N(R)E(-W)
	7E475007 / 7E475107	RWM-4.0NE(-W)
	7E475008 / 7E475108	RWM-5.0NE(-W)
	7E475009 / 7E475109	RWM-6.0NE(-W)
	7E475010 / 7E475110	RWM-8.0NE(-W)
	7E475011 / 7E475111	RWM-10.0NE(-W)
	7E475202	RWM-1.5R2E
	7E475216 / 7E475252	RWM-2.0R(1)/(2)E
	7E475217 / 7E475253	RWM-2.5R(1)/(2)E
	7E475218 / 7E475254	RWM-3.0R(1)/(2)E
	7E475020	RWM-4.0N1E
	7E475021	RWM-5.0N1E
	7E475022	RWM-6.0N1E
	7E475023	RWM-8.0N1E
	7E475024	RWM-10.0N1E
YUTAKI S80	7E482007 / 7E482207	RWH-4.0VNF(W)E
	7E482008 / 7E482208	RWH-5.0VNF(W)E
	7E482009 / 7E482209	RWH-6.0VNF(W)E
	7E482107 / 7E482307	RWH-4.0NF(W)E
	7E482108 / 7E482308	RWH-5.0NF(W)E
	7E482109 / 7E482309	RWH-6.0NF(W)E

YUTAKI S Combi	7E483003 / 7E483103 / 7E483203 / 7E483042 / 7E483142 / 7E483242	RWD-2.0N(R)WE-200S(-W)(-K)
	7E483004 / 7E483104 / 7E483204 / 7E483043 / 7E483143 / 7E483243	RWD-2.5N(R)WE-200S(-W)(-K)
	7E483005 / 7E483105 / 7E483205 / 7E483044 / 7E483144 / 7E483244	RWD-3.0N(R)WE-200S(-W)(-K)
	7E483007 / 7E483107 / 7E483207	RWD-4.0NWE-200S(-W)(-K)
	7E483008 / 7E483108 / 7E483208	RWD-5.0NWE-200S(-W)(-K)
	7E483009 / 7E483109 / 7E483209	RWD-6.0NWE-200S(-W)(-K)
	7E483016 / 7E483116 / 7E483216 / 7E483316 / 7E483416 / 7E483052 / 7E483152 / 7E483342 / 7E483442 / 7E483251	RWD-2.0N(R)W(S)E-260S(-W)(-K)
	7E483017 / 7E483117 / 7E483217 / 7E483317 / 7E483417 / 7E483053 / 7E483153 / 7E483343 / 7E483443 / 7E483252	RWD-2.5N(R)W(S)E-260S(-W)(-K)
	7E483018 / 7E483118 / 7E483218 / 7E483318 / 7E483418 / 7E483054 / 7E483154 / 7E483344 / 7E483444 / 7E483253	RWD-3.0N(R)W(S)E-260S(-W)(-K)
	7E483020 / 7E483120 / 7E483220 / 7E483320 / 7E483420	RWD-4.0NW(S)E-260S(-W)(-K)
	7E483021 / 7E483121 / 7E483221 / 7E483321 / 7E483421	RWD-5.0NW(S)E-260S(-W)(-K)
	7E483022 / 7E483122 / 7E483222 / 7E483322 / 7E483422	RWD-6.0NW(S)E-260S(-W)(-K)
	7E483502 / 7E483515	RWD-1.5RW(2)E-220S(-K)
	7E483503 / 7E483516 / 7E483565 / 7E483568 / 7E483603	RWD-2.0RW(1)/(2)E-220S(-K)(-6H)
	7E483504 / 7E483517 / 7E483566 / 7E483569 / 7E483604	RWD-2.5RW(1)/(2)E-220S(-K)(-6H)
	7E483505 / 7E483518 / 7E483567 / 7E483570 / 7E483605	RWD-3.0RW(1)/(2)E-220S(-K)(-6H)
Hydrosplit System	7E483507 / 7E483520	RWD-4.0NW1E-220S(-K)
	7E483508 / 7E483521	RWD-5.0NW1E-220S(-K)
Mirror for YUTAKI M	7E483509 / 7E483522	RWD-6.0NW1E-220S(-K)
	7E549958 / 7E549966	HWD-WE-220S(-K)
	7E545900	HWM-WE
Mirror for YUTAKI M	7E549936	ATW-YMM-01 (YUTAKI M Mirror)
	7E549962	ATW-YMM-02 (YUTAKI M Mirror)

Yutaki software update requirements

Yutaki range software update:

- A software update of the Yutaki main PCB and LCD controller has been prepared to propose new features on the current manufactured units and on the new models to be released in 2024.
- The list of the concerned models and the related software versions are indicated in the tables below.

These software versions for Yutaki main PCB and LCD controller are the ones required to enjoy all the new functions of CSNET Home v1.1 and all level 2 PRO features, in addition to the new functions directly available with the updated Yutaki units.

CSNET Home v1.1 can be used with any Yutaki unit from 2016, but some functions may not be available if the related Yutaki unit or IOT gateway is not up to date.

Update of existing / already installed units is possible, only for the models listed in the table presented on this slide, by a manual update of the main PCB and of the LCD controller. Update tools and firmware shall be requested to the EU technical support teams (ISP310 writer for Main PCB, Renesas Flash programmer v3.08 + Flash-writer E2LITE for PC-ARFH2E).

Model Type	Model Code	Description
YUTAKI M Standard / Hydrosplit	7E352007 / 7E352107	RASM-4(V)R1E
	7E352008 / 7E352108	RASM-5(V)R1E
	7E352009 / 7E352109	RASM-6(V)R1E
	7E352158	RASM-7R1E
	7E352020 / 7E352120	RASM-4(V)RW1E
	7E352021 / 7E352121	RASM-5(V)RW1E
	7E352022 / 7E352122	RASM-6(V)RW1E
Yutaki H/HC	7E352159	RASM-7RW1E
	7E549958 / 7E549966	HWD-WE-220S(-K)
YUTAKI S	7E545900	HWM-WE
	7E475216	RWM-2.0R1E
	7E475217	RWM-2.5R1E
	7E475218	RWM-3.0R1E
	7E475020	RWM-4.0N1E
	7E475021	RWM-5.0N1E
	7E475022	RWM-6.0N1E
	7E475023	RWM-8.0N1E
	7E475024	RWM-10.0N1E
YUTAKI SC	7E483503 / 7E483516	RWD-2.0RW1E-220S(-K)
	7E483504 / 7E483517	RWD-2.5RW1E-220S(-K)
	7E483505 / 7E483518	RWD-3.0RW1E-220S(-K)
	7E483507 / 7E483520	RWD-4.0NW1E-220S(-K)
	7E483508 / 7E483521	RWD-5.0NW1E-220S(-K)
	7E483509 / 7E483522	RWD-6.0NW1E-220S(-K)

	Unit	Previous software	New software
Indoor unit PCB	Yutaki S		
	Yutaki SC		
	Yutaki M (Water cycle)		
	Yutaki H/HC	H-0286	H-0289
	Mirror for YUTAKI M		
	Cascade Controller		
Indoor unit LCD	PC-ARFH2E	H-0258	H-0287
H-Link adaptor for Yutampo	ATW-HCD-01	H-0152	H-0306

CSNET Home: features

Features dedicated to End Users

Account creation

Discovery of IOT devices using Bluetooth

Up to 2 gateways / Heating units per account

Standard control function of the zones

Simplified zone operation and temperatures history

Weekly timer for all zones (including DHW and SPW)

Advanced wizard and functions for the weekly timer

Holiday mode

Power consumption data

Alarm notification, description and history

Creation of several installations (up to 10)

Invitation of users to your installations

Management of user's feedback

Apps managing 26 EU languages

Functions	Hi-Kumo	CSNET Home
Mobile apps, iOS and Android	✓	✓
Web app	Beta version only	✓
Pairing procedure using Bluetooth, no manual action on the gateway to set pairing mode	✗	✓
WIFI data by scanning QR code of the router	✗	✓
Management of multiple users for one installation	✗	✓
Reset of IOT gateway from App	✗	✓
Complete user's account management from App (modify some settings, account deletion...)	✗	✓
Management of 2 Yutaki units from the same user account	✗	✓
Management of several installations (up to 10) from App	✗	✓
Control of zones (space heating, space cooling, DHW, SWP) with On/Off, operation mode, temperature setting or Eco/Comfort	✓	✓
Management of space heating zones with or without RTU	✓	✓
Mixing space heating zones with or without RTU	✗	✓
Weekly timer for space heating zones	✓	✓
Advanced functions for weekly timer (advanced wizard, copy timer)	✗	✓
Weekly timer for DHW and SWP	✗	✓
Holiday mode	✓	✓
Advanced settings for Holiday mode (returning time setting, application to DHW and SWP)	✗	✓
Power consumption (per zone or total)	pending update	✓
Simplified Temperature history per zone (graphic view)	✗	✓
Alarm history	✓	✓
Alarm notification on Home page + alarm description	✗	✓
Management of feedback from users	✗	✓
Available translations for Apps	26	15



Available



Not available

CSNET Home v1.1: new features

Summary of the new functions for CSNET Home and software update requirements

CSNET Home Features		Required software update to run the new CSNET Home functions					
New CSNET Home function	Related CSNET Home App	Mobile App update v1.1	Web App update v1.1	Server update v1.1	ATW-IOT-01 update	Yutaki LCD update H-0287	Yutaki Main PCB update H-0289
Biometric login (Fingerprint / Face ID access)	Mobile Apps	Yes	-	-	-	-	-
Improved new user account creation (when using the web link to validate the account, mobile App displays automatically the login page)	Mobile Apps	Yes	-	-	-	-	-
Holiday mode - display of a "enjoy holidays" screen to avoid changing unit setting	Mobile Apps	Yes	-	-	-	-	-
Demo mode	Mobile Apps	Yes	-	-	-	-	-
App asking to configure weather forecast after login	Mobile Apps	Yes	-	-	-	-	-
Display power consumption data table	Mobile Apps	Yes	-	-	-	-	-
Get the available WiFi list from the IOT gateway	Mobile Apps	Yes	-	-	Yes	-	-
Management of non-WiFi Ready QR screen from router	Mobile Apps	Yes					
Improved layout on Web App, matching with the design of mobile App (global On/Off command, installation settings)	Web App	-	Yes	-	-	-	-

Yes: related software update is mandatory for this function

–: related software update is not necessary for this function

CSNET Home v1.1: new features

Summary of the new functions for CSNET Home and software update requirements

CSNET Home Features		Required software update to run the new CSNET Home functions					
New CSNET Home function	Related CSNET Home App	Mobile App update v1.1	Web App update v1.1	Server update v1.1	ATW-IOT-01 update	Yutaki LCD update H-0287	Yutaki Main PCB update H-0289
Management of fixed water temperature setting	Mobile & Web Apps	Yes	Yes	-	-	-	-
Display of Timer icon on dashboard	Mobile & Web Apps	Yes	Yes	-	-	-	-
Display of Eco icon on dashboard	Mobile & Web Apps	Yes	Yes	-	-	-	-
Reset power consumption	Mobile & Web Apps	Yes	Yes	-	-	-	-
Factory reset of IOT gateway from App	Mobile & Web Apps	Yes	Yes	Yes	Yes	-	-
Holiday mode for DHW and SWP	Mobile & Web Apps	Yes	Yes	Yes	Yes	-	-
Holiday mode: restoring previous settings	Mobile & Web Apps	Yes	Yes	Yes	Yes	-	-
Management of Yutaki Automatic mode	Mobile & Web Apps	Yes	Yes	Yes	Yes	Yes	Yes
Management of Boost mode for DHW	Mobile & Web Apps	Yes	Yes	Yes	Yes	Yes	Yes
Email notification when account is locked by too many login failures	Mobile & Web Apps	-	-	Yes	-	-	-
Contact information (email) per country added to the Apps	Mobile & Web Apps	Yes	Yes	-	-	-	-

Yes: related software update is mandatory for this function

– “: related software update is not necessary for this function

CSNET Home v1.1: new features

Summary of the new functions for CSNET Home and software update requirements

CSNET Home Features		Required software update to run the new CSNET Home functions					
New CSNET Home function	Related CSNET Home App	Mobile App update v1.1	Web App update v1.1	Server update v1.1	ATW-IOT-01 update	Yutaki LCD update H-0287	Yutaki Main PCB update H-0289
Displaying unit capacity	PRO features	-	Yes	Yes	Yes	-	Yes
Display of PCB / LCD Software	PRO features	-	Yes	-	Yes	Yes	Yes
System configuration settings of LCD controller available in CSNET Home PRO menu (read & write)	PRO features	-	Yes	Yes	Yes	Yes	Yes
Country management summary view, for PRO Admins	PRO features	-	Yes	Yes	-	-	-
List of automatic emails sent by the system	PRO features	-	Yes	Yes	-	-	-
Improved order log with timer and holiday mode orders + new filters	PRO features	-	Yes	Yes	Yes	-	-
Manual fields for unit model and serial number	PRO features	-	Yes	Yes	-	-	-
Country filter on installation list	PRO features	-	Yes	Yes	-	-	-
List of all the users for admin profiles	PRO features	-	Yes	Yes	-	-	-
List of users and installations for service companies and distributors	PRO features	-	Yes	-	-	-	-
Revoke function for admin profiles to cut the link between companies and installations	PRO features	-	Yes	Yes	-	-	-
WiFi level quality on IOT gateway status	PRO features	-	Yes	Yes	Yes	-	-

Yes: related software update is mandatory for this function
 “-”: related software update is not necessary for this function

CSNET Home v1.1: other compatibility information

Notes about other features:

Compatibility with **Cascade Controller** (ATW-YCC-03) and compatibility with **multi-Yutaki systems** is postponed to the next major update of CSNET Home (version 1.2, time to market to be confirmed).

Additional improvements of the interface are considered for the next updates of CSNET Home:

- Complementary information about the WiFi signal strength
- Improved export data file.
- Reading ODU PCB firmware version
- Automatic maintenance report for installations
- Improved alarm log page
- Energy performance data, in addition to the power consumption data
- Email notification in case of disconnected gateway
- ...

Please note this is a list of intentions, not a firm commitment to get all these new features available in the next CSNET Home update.

CSNET Home: mobile App preview

Account creation sequence

Register

User details

Language

English

Country

France

Name

Albert

Surname

Sanz Gutierrez

Username

AlbertSanzGutierrez.954

Email Address

test@jci.com

User account creation. Email must be confirmed with a one-time-password.

Country

France

Name

Albert

Surname

Sanz Gutierrez

Username

AlbertSanzGutierrez.954

Email Address

test@jci.com

Password Definition

Password

.....

Repeat password

.....

Register

User account creation part 2. When clicking on register, the user will have to confirm the email address with the one-time-password sent.

Default Installation

Welcome, Albert

No Units have been found

Add a device

Once the account is created, the user can see this screen, asking to proceed with the discovery of the IOT gateway / unit. This screen may disappear in future release (automatic discovery procedure)

Link New Device

Scan QR code to automatically fill the fields, or enter them manually

Scan the QR code attached on the Hitachi device

Device Key

Device Name

Device Password

User Password

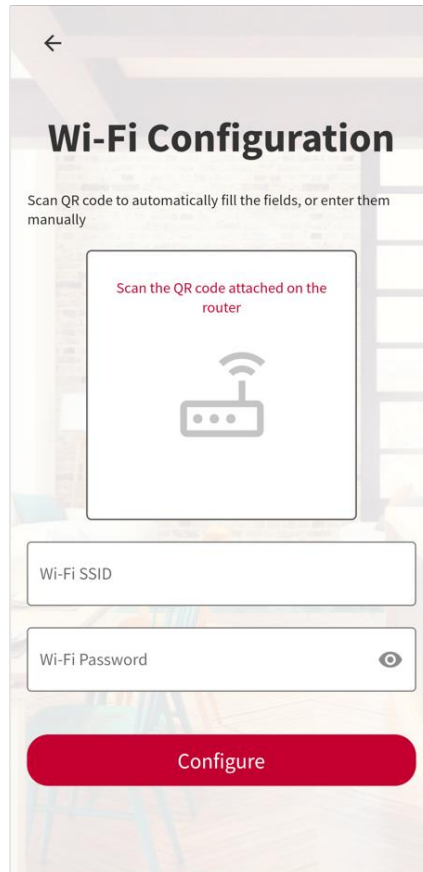
Pressing “Add a device” is starting the discovery procedure. See the next pages for details.

CSNET Home: mobile App preview

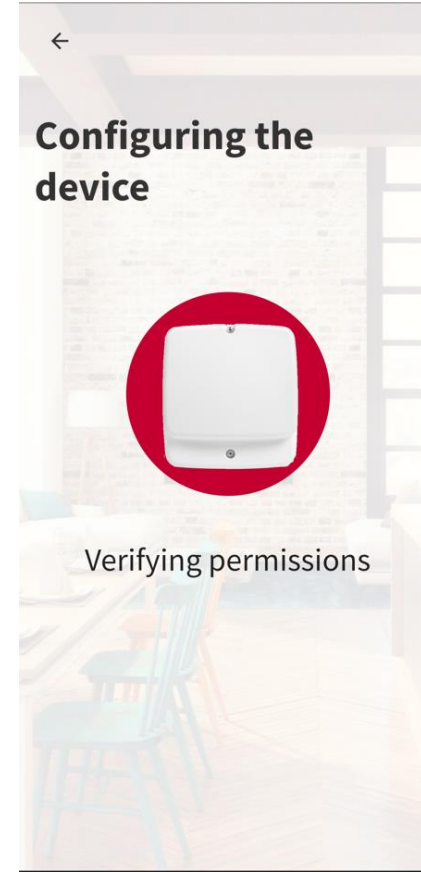
Unit discovery procedure



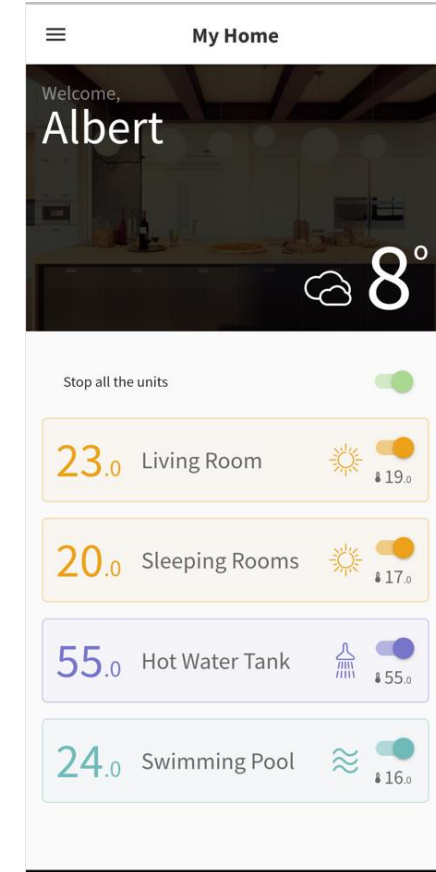
Start the discovery procedure by scanning the QR code of the ATW-IOT-01 gateway. Scanning the QR code is filling all the fields automatically. Manual input is possible as a backup option.



Input the details about the target Wi-Fi network: manual input or automatic input by scanning the QR code proposed by the DSL router or by the Wi-Fi connection (Wi-Fi quick share).
Note: no physical action on the IOT gateway is required to set the device in pairing mode (no PROG button to push).



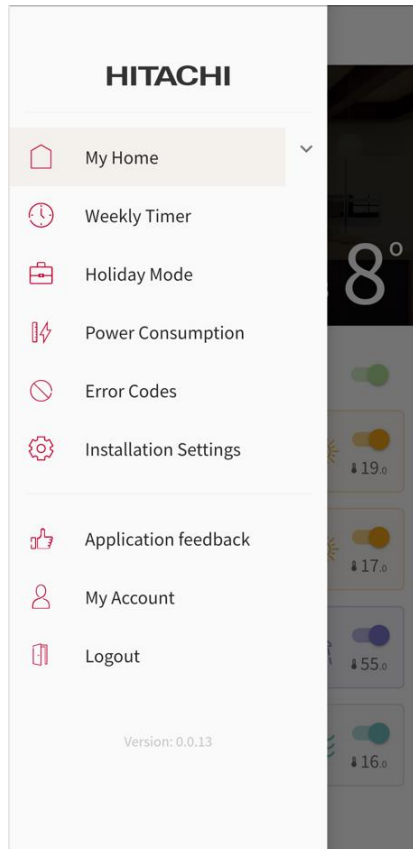
Configuring the gateway and checking if the device is already attached to one user account.
In case the gateway would already be attached to one user account, the App will inform the user and propose some options (same concept as airCloud Home)



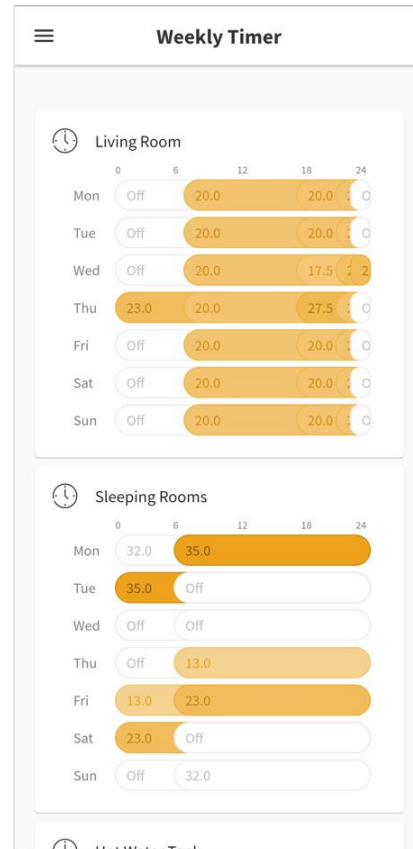
Once the discovery sequence is finished, the user can automatically see the related zoned on Home page.
Details of the zones can be edited from the upper left menu.
Other gateways can be discovered from the Installation and Settings menu.

CSNET Home : mobile App preview

Menus and functions

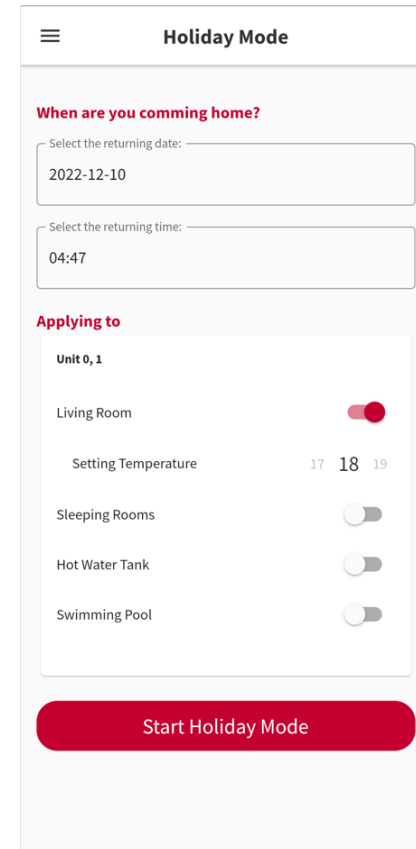


The main menu at the upper left corner is giving access to the different sub menus and functions.



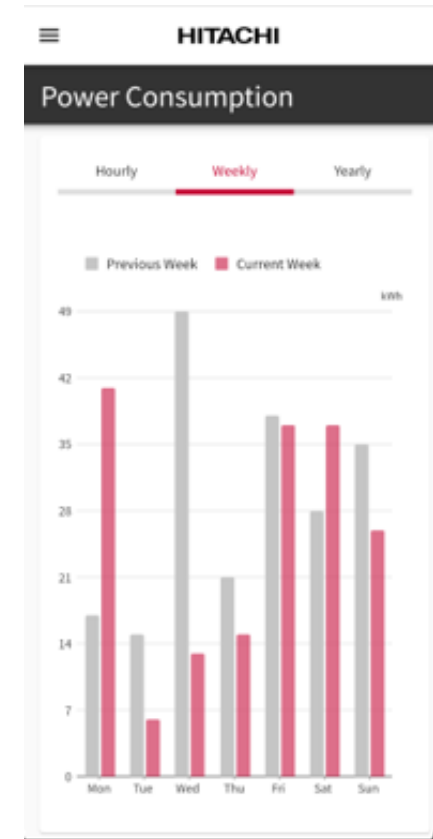
Weekly timer summary is displayed. Tap one room / zone name to edit the timer.

A new wizard is available to set up easily and accurately the weekly timer. Manual edition is always possible.



Holiday mode, available for all the zones, including DHW tank.

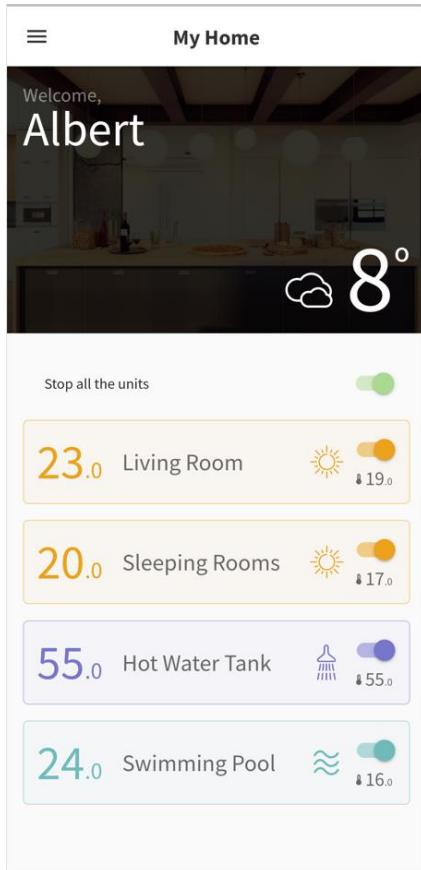
The back-at-home hour can be set accurately.



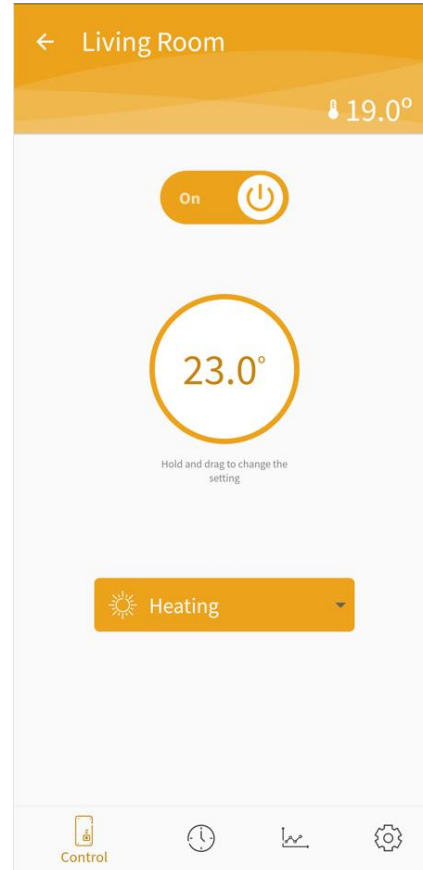
Power consumption available as graphic view, for space heating zones, domestic hot water production and swimming pool heating. Data can be displayed with or without external power meter (for the 2021 R32 Yutaki units).

CSNET Home: mobile App preview

Zone control details #1



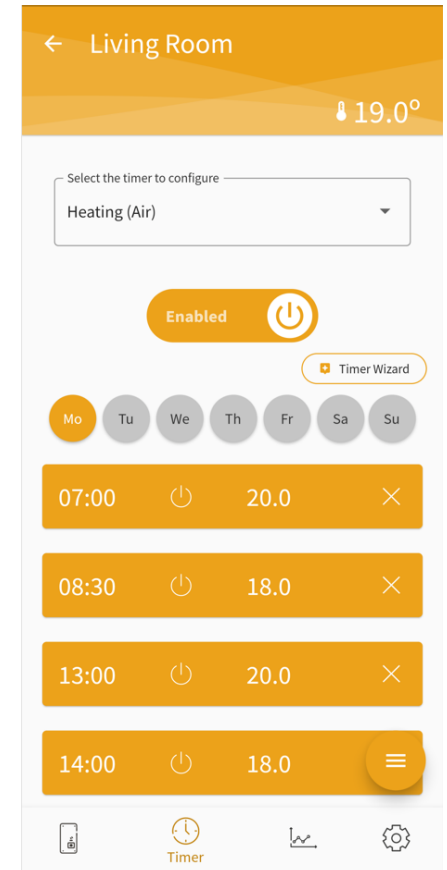
From home page, the different zones can be monitored. Tap on a zone to access to the zone focus and get more details and parameters.



Focus for space heating zone. On/Off, temperature setting, and operation mode can be set. Tap on each setting to open the related menu. Room temperature is displayed at the upper right corner of the screen. Modifications are applied automatically.



Slide right/left of up/down to set temperature.

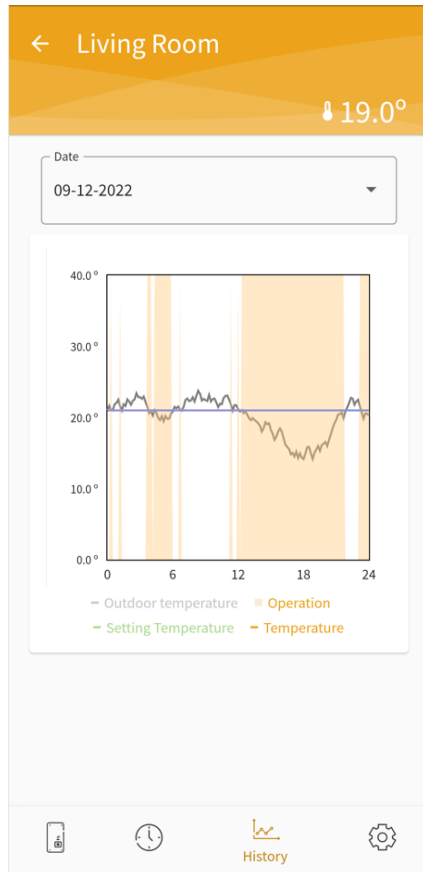


From the timer menu, several actions are possible:

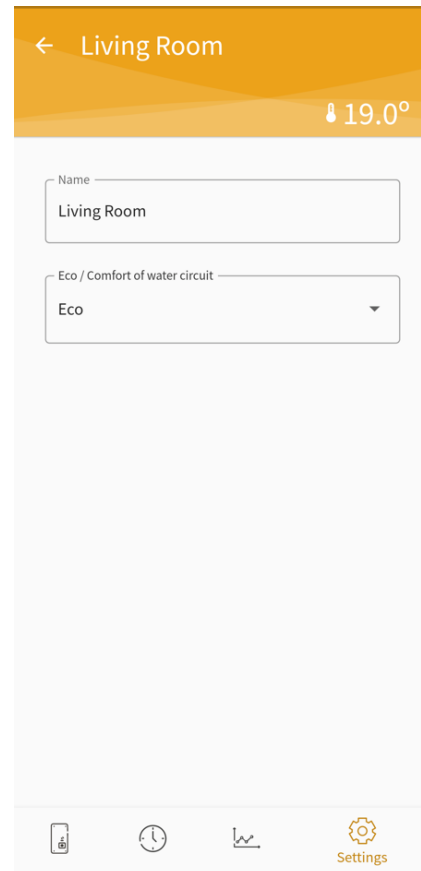
- activate/deactivate the timer
- Select the related operation mode
- Display and edit the schedules defined for this zone.
- Start the wizard.

CSNET Home: mobile App preview

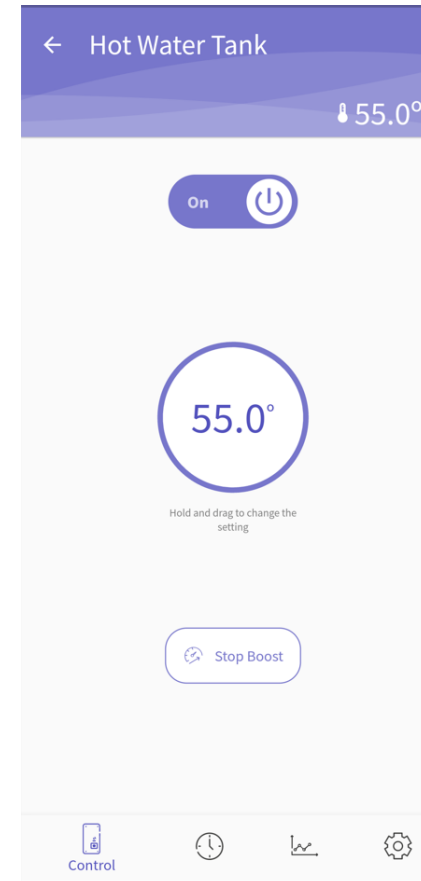
Zone control details #2



Simple historical data graphic view per zone.
 Space heating zone: Temp. setting, room temp, outdoor temp, system operation (On/Off)
 DHW: water temp. setting, current water temp, outdoor temp, system operation (On/Off)

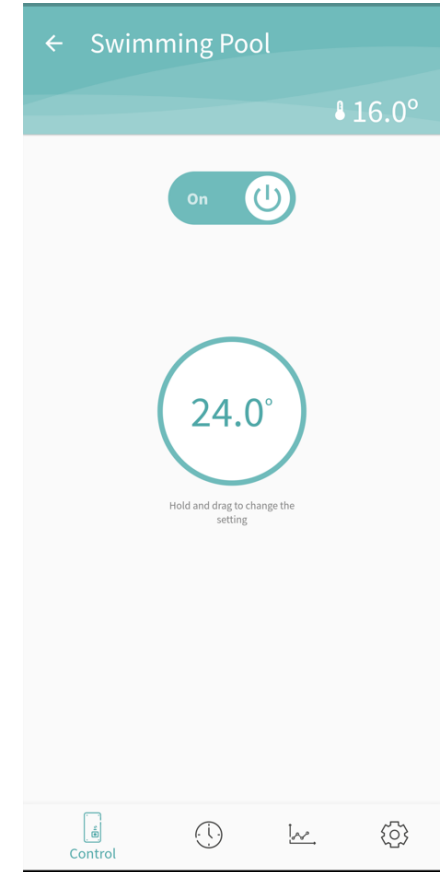


Setting menu on each zone allows the user to set the name of the zone and to adjust some specific settings (in this case, Eco/Comfort on water circuit for space heating zone).



- DHW focus with
- On/Off command
 - Water Temperature setting
 - Boost command

Current water temperature in the tank is displayed at the upper right corner.



- Swimming pool focus
- On/Off command
 - Water Temperature setting

Current water temperature in the pool is displayed at the upper right corner.

03

CSNET Manager & CSNET Lite

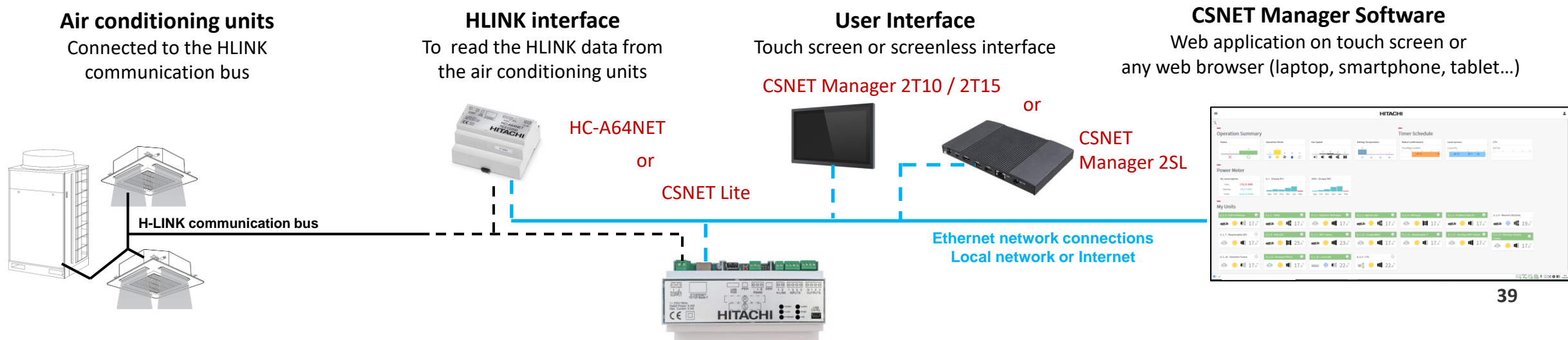
**Advanced Central Controllers
PRIMAIRY & Standard PAC**

Cooling & Heating

CSNET MANAGER RANGE 2023-2024

What is CSNET Manager?

- Dedicated to VRF systems, **CSNET Manager** is the **flagship of Hitachi's central controller range**
- This range is proposing several interfaces allowing to **control locally or remotely any VRF installation**
- This control system is based on the combination of the 3 following items:
 - One or several **HLINK interfaces**, to get the data from the air conditioning units
 - One **user interface**: a touch screen, a computer screen, a web browser on a laptop
 - **CSNET Manager software** (web application) to control the units



CSNET MANAGER RANGE 2023-2024 – USER INTERFACES



CSNET MANAGER 2T10 & 2T15

Premium solution

High resolution **touch screen 10" or 15"**

Best in class user experience :

- High resolution touch screen
- Easy to use Web application

Combination with HLINK interface:
HC-A64NET or CSNET Lite

Controlling up to 16 HLINK interfaces
1024 indoor units

Dedicated to large and medium VRF
systems



CSNET MANAGER 2 SL

Standard solution

Screen less interface

Full standalone device supporting all the
functions of CSNET Manager 2 software

Same easy to use Web application

Combination with HLINK interface:
HC-A64NET or CSNET Lite

Controlling up to 16 HLINK interfaces
1024 indoor units

Dedicated to large and medium VRF
systems



CSNET LITE

Entry solution

1 device combining a screenless user
interface & the HLINK gateway

Standalone device supporting most of the
functions of CSNET Manager 2 software

Same easy to use Web application

Controlling up to 64 indoor units

Dedicated to small VRF installations and
light commercial systems

CSNET MANAGER RANGE 2023-2024 – HLINK GATEWAYS



HC-A64NET

Standard HLINK interface

Combination with CSNET Manager 2 devices (touch screens or SL device)

Can control up to 64 indoor units

Local network connections only

No local control of the units (only HLINK interface for CSNET devices)

No remote update

Ideal for large and medium VRF systems



CSNET LITE

Advanced HLINK interface

Combination with CSNET Manager 2 devices (touch screens or SL device)

Can control up to 64 indoor units

Local network and Internet connections

Local control features available

Remote update is possible

Dedicated to small installations and light commercial market.

Perfect for remote monitoring of branch offices from headquarter

CSNET MANAGER RANGE 2023-2024

General specifications

- CSNET Manager system is compatible with **Hitachi VRF units (EU range)**, but also with:
 - **Air-to-water heat pumps and hot water tanks** (Yutaki, Yutampo, Hydrofree modules)
 - **RAC units** using a RAC to HLINK adapter (PSC-6RAD or SPX-RAMHLK)
 - **PRIMARY units** using the PRIMARY HLINK adapter (HCAA01NEWI)
 - **AIRZONE zoning systems** (from CSNET Manager software version 2.1)
- **Maximum quantity of units:**
 - One **HC-A64NET** HLINK interface can manage up to **64 indoor units**
 - One **CSNET Lite** can manage up to **64 indoor units**
 - One **CSNET Manager 2 device** (2T10, 2T15, 2SL) can manage up to **16 HLINK interfaces** and up to **1024 units**.
 - There are additional limitations for :
 - **Air-to-water systems:** 8 ATW units max per HLINK line
 - **Airzone systems:** 1 zone is considered as 1 indoor unit for the above limitations
 - 64 (units + zones) per HLINK or per CSNET Lite
 - Up to 1024 (units + zones) per CSNET Manager 2 devices)



Note: For more details about these specific systems, refer to the CSNET Manager product manual or technical bulletins.

CSNET MANAGER RANGE 2023-2024

CSNET Manager software interface

One common Web application for all the devices!

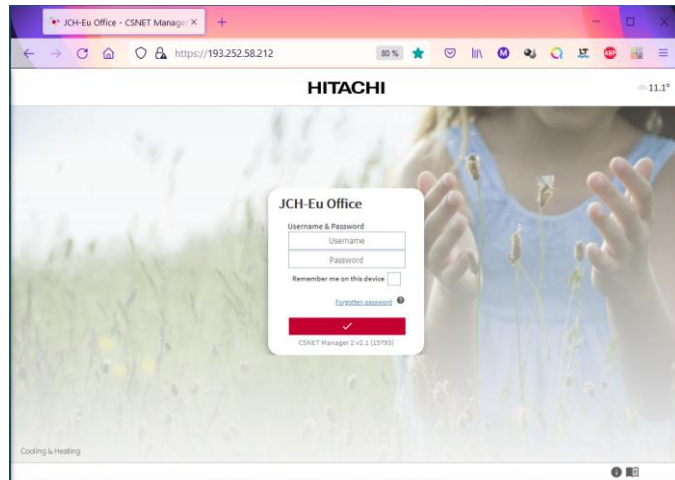
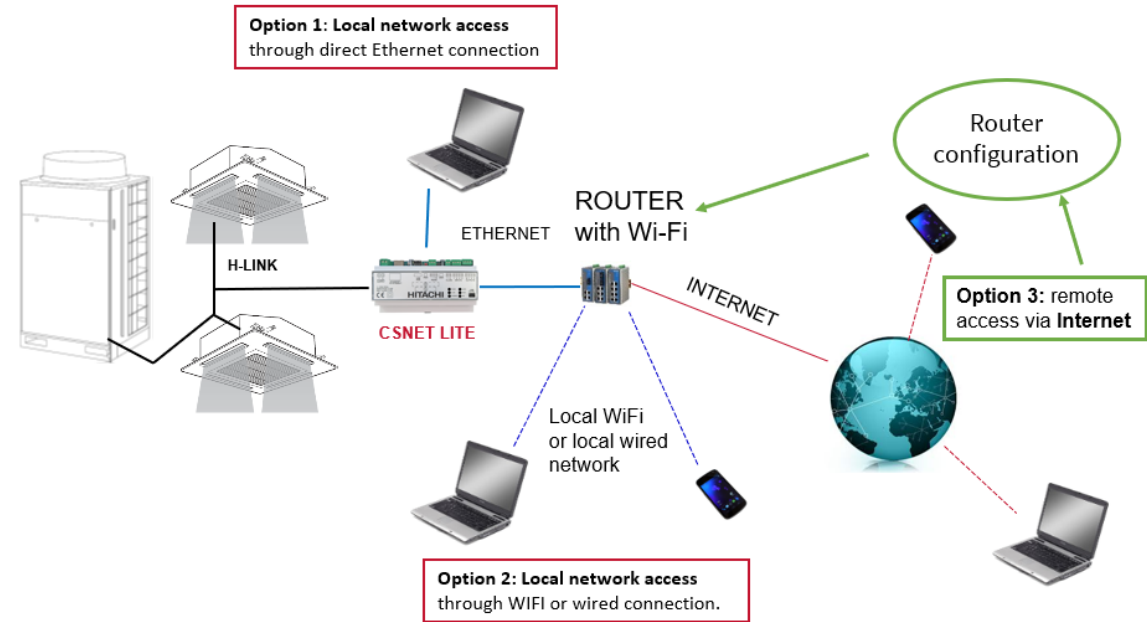
The user interface is a **Web application** used by **all the CSNET devices**.

This interface is running through a **Web browser**:

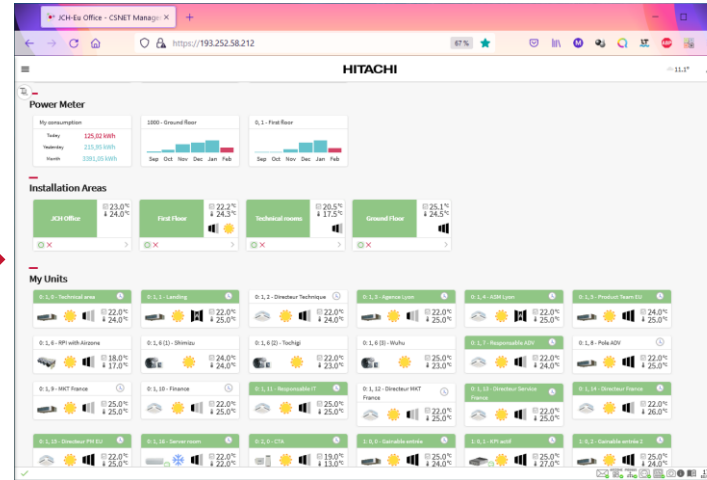
- Embedded browser on the touch screens (CSNET 2T10 and 2T15)
- Web browser on your laptop, smartphone or tablet

Connect your laptop or smartphone to the same local network as the CSNET Manager devices to get access to the CSNET Manager interface.

Input the **IP address** of the CSNET Manager device in your **web browser** to get connected!



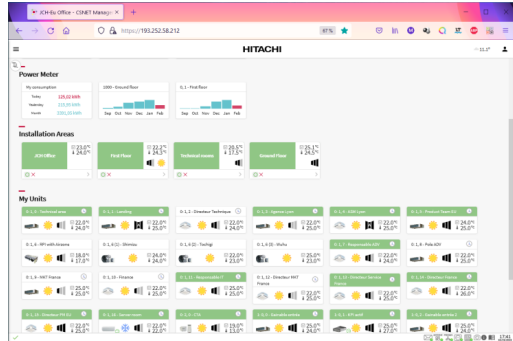
Input login and password



Connection through Internet is possible, this only requires to set up the router on site to transfer the data to the CSNET Manager device.

In this case, use the **external IP address** of your router to access to CSNET Manager and control your system remotely !

FEATURES & BENEFITS



General features

High performances hardware devices

Touch screens with excellent user experience

Wide range with devices to match any type of installation

Web application including all the functions (no additional license to purchase)

Easy to use Web interface with **adaptive display**

Different views available to control the units (Dashboard, list, building layout...)

Control features

Standard control commands for all the compatible units

Complete weekly timer with yearly schedule

Comfort functions for indoor units: GentleCool, HeatDraft, SetBack, Auto Cool/Heat

Management of **multitenant systems**

Management of **Server Rooms** with rotation and backup control

Power monitoring features with or without integrated power meters, **Power distribution for multitenant systems**



Maintenance features

Alarm notification by email

Recording operation data: Order log, Alarm log, historical data, service tool data

Monitoring operation data: live data table and graphic views

Outdoor unit control functions: night mode (noise reduction) & demand function

Reminders for the standard **maintenance operations**

Optional function settings from CSNET interface: easy and fast configuration

Advanced functions

Interlock control: IF This Then That concept, smart actions using the indoor units' parameters and input contacts

External Input / output contacts available on **CSNET Lite**: setup smart action by a dry contact (emergency stop...)

Connection to BMS: embedded Modbus IP output, compatibility with KNX and BACnet gateways



FEATURES & BENEFITS per CSNET Manager device

Features		CSNET Manager 2T10 & 2T15	CSNET Manager 2 SL	CSNET Lite	HC-A64NET
Hardware	Device type	CSNET Touch screen	CSNET screenless unit	CSNET screenless Lite unit	HLINK interface
	HLINK interface	HC-A64NET or CSNET Lite			
	Max qty of units	Up to 1024	Up to 1024	64	64
	Touch Screen	Capacitive 10" / 15"	--	--	--
	Combined with	HC-A64NET or any other CSNET device (2T10/2T15/2SL/Lite)		Standalone or combined with CSNET 2T10/2T15/2SL	CSNET 2T10/2T15/2SL
	Software interface	CSNET Manager 2 Web application		CSNET Manager 2 Web application	--
	Update by local file or Internet	Yes	Yes	Yes	No
Compatibility range	Standard HLINK VRF units	Yes	Yes	Yes	Yes
	Air-to-Water systems (Yutaki, Yutampo, Hydrofree)	Yes (for devices updated with CSNET Manager Web Application v2.0.x)			Yes (from v2.0 firmware H-0223)
	RAC units with HLINK adapter	Yes	Yes	Yes	Yes
	PRIMAIRY units with HLINK adapter	Yes	Yes	Yes	Yes
	Airzone systems	Yes (for devices updated with CSNET Manager Web Application v2.1.x)			--
Display	Dashboard, list and grid views	Yes	Yes	Yes	--
	Building Layout	Yes	Yes	--	--
Comfort functions	Auto Cool/Heat (by CSNET)	Yes	Yes	Yes	--
	Auto Cool/Heat (from Remote controller)	Yes	Yes	Yes	--
	Heat Draft	Yes	Yes	Yes	--
	Cold Draft	Yes	Yes	Yes	--
	Set Back	Yes	Yes	Yes	--
Power metering	Power consumption distribution	Yes	Yes	Yes	--
	External Power Meters (Modbus IP communication)	Yes	Yes	Up to 8 power meters managed by CSNET Lite	--
	External Power Meters (Pulses contact)	Yes (if CSNET Lite is used as HLINK interface)		Yes (up to 3 pulse power meters per CSNET Lite)	--
	Notification related to power consumption by email	Yes	Yes	Yes	--
	Display of non-electric data	Yes	Yes	Yes	--

FEATURES & BENEFITS per CSNET Manager device

	Features	CSNET Manager 2T10 & 2T15	CSNET Manager 2 SL	CSNET Lite	HC-A64NET
Timer	Advanced Weekly Timer	Yes	Yes	Yes	--
	ICS events in weekly timer	Yes	Yes	No	--
Maintenance functions	Historical Data storage size	2 GB	2 GB	256 MB	--
	Alarm Log (estimated storage time)	Yes - 6 months	Yes - 6 months	Yes - 6 months	--
	Order Log (estimated storage time)	Yes - 6 months	Yes - 6 months	Yes - 6 months	--
	Data Live view (check mode)	Yes	Yes	Yes	--
	System Status	Yes	Yes	Yes	--
	Alarm notification by email	Yes	Yes	Yes	--
	Maintenance reminders	Yes	Yes	Yes	--
	Server room management (rotation & backup functions)	Yes	Yes	Yes	--
	Optional Functions setting for Indoor units (b1, b2, c5, c8, etc...)	Yes	Yes	Yes	--
	Optional Functions Outdoor unit (night mode and low noise mode)	Yes	Yes	Yes	--
Multitenant	Management of multitenant systems & power distribution	Yes	Yes	Yes	--
BMS connection	Modbus IP output	Yes	Yes	Yes	--
	Compatibility with KNX and BACnet gateway	Yes	Yes	Yes	--
	Fidelio	Yes	Yes	No	--
Smart actions	Interlock	Yes	Yes	Yes	--
	Hotel Application	Yes	Yes	No	--
	CSNET Lite Input/Output contacts	Yes (if CSNET Lite is used as HLINK interface)		Yes	--
	Indoor unit Input/Output contacts	Yes	Yes	Yes	--

CSNET Manager Web Application

Take control of your installation!

Function menu
To access to all the functions and system configuration of CSNET Manager 2 software :

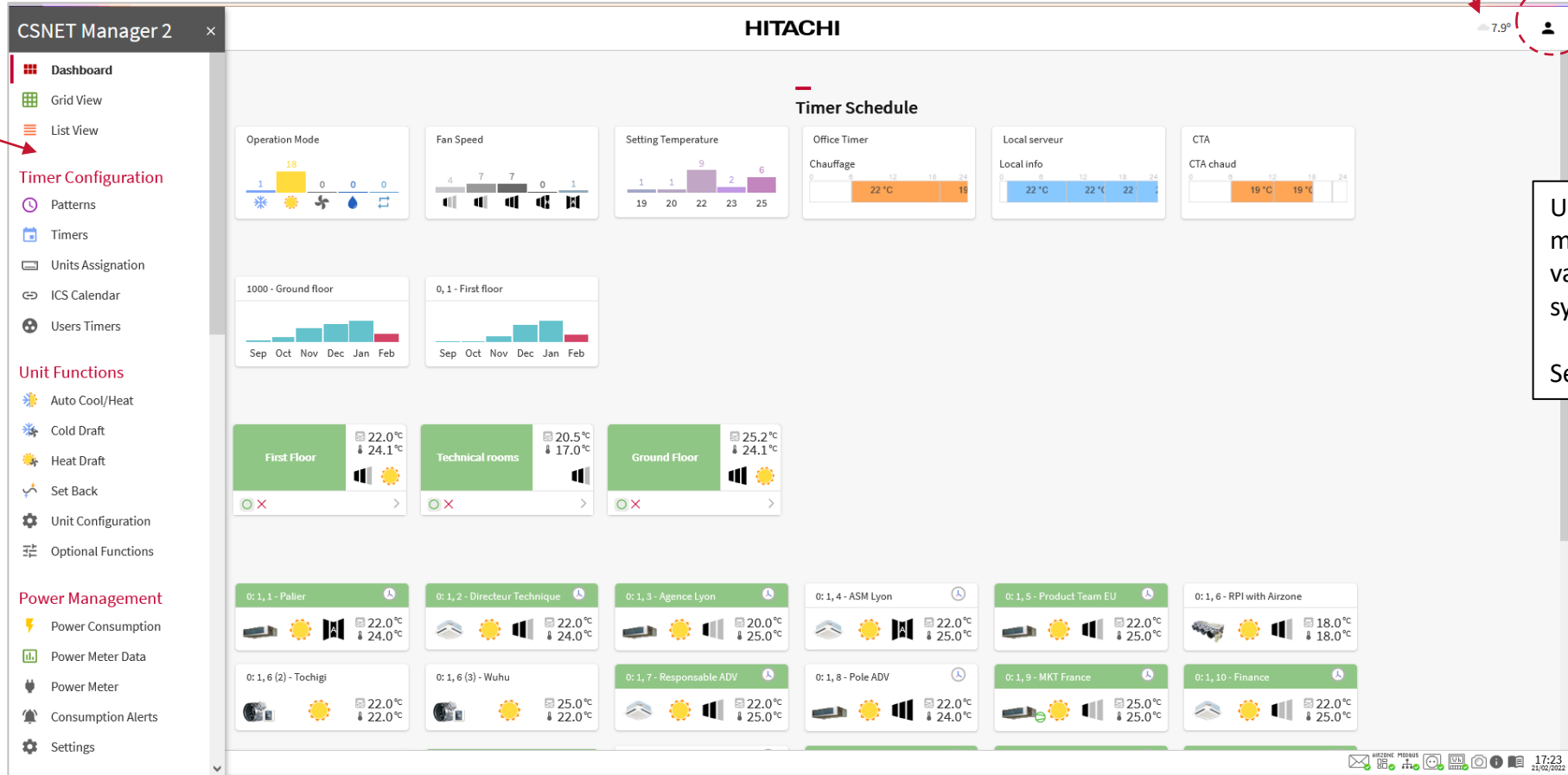
Display modes

Weekly timer setup

Indoor units setup and control functions

Power meter management and power consumption calculations

And more...



Weather forecast

User's preferences menu, to setup various options of the system for each user.

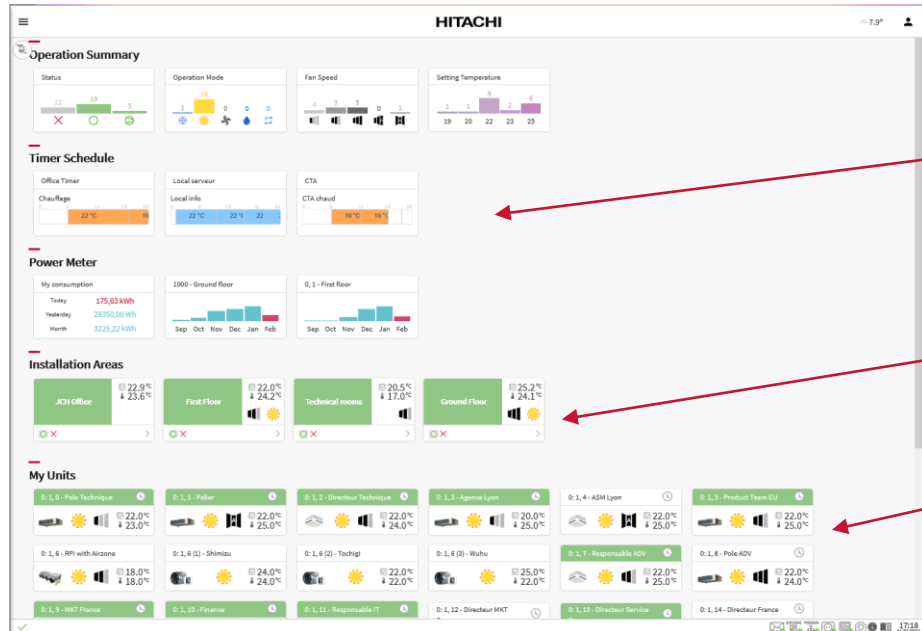
See next slide.

System tray icons for active functions

CSNET Manager Web Application

Different display modes

Dashboard, list of units, icons, building layout, Remote Control display mode... Several options are available to display the list of units, with menus on both sides of the screen to control units or access to the functions.

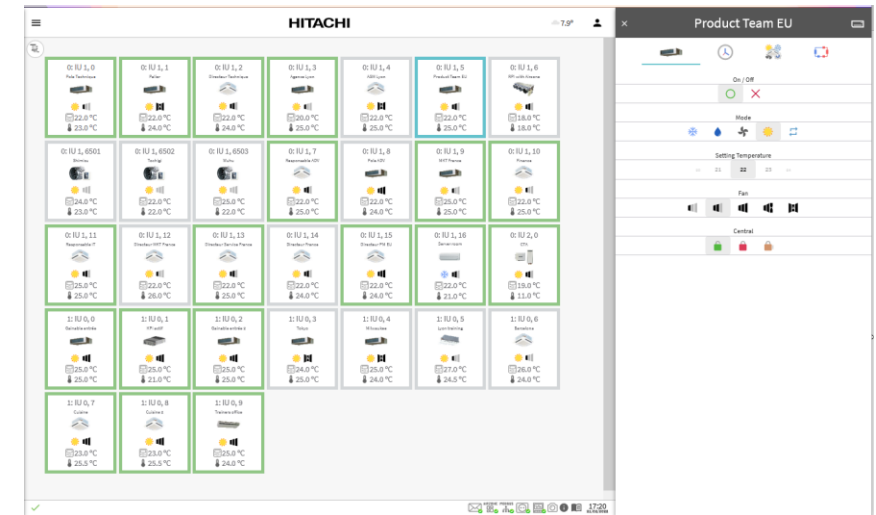


Dashboard view

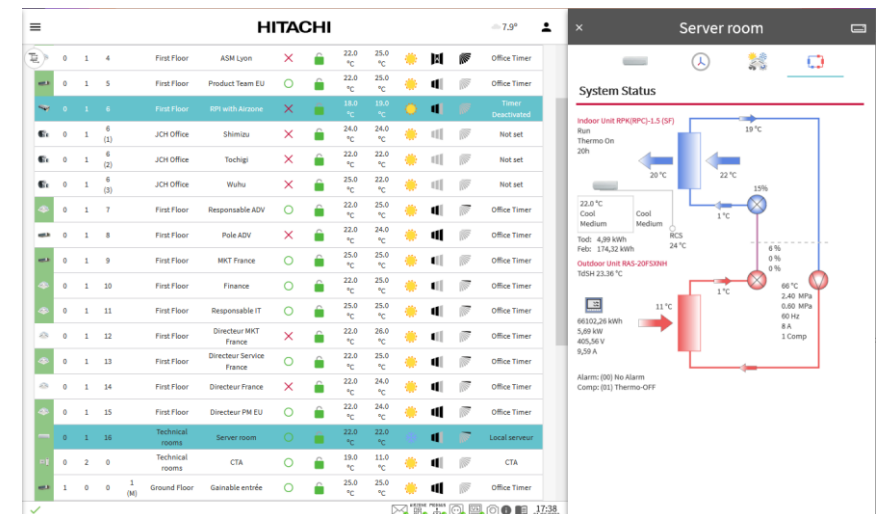
Dashboard data
Operation summary
Active Weekly Timer
Power meter data

Cards to control
groups of indoor units

List of indoor units



Grid view + indoor unit control panel (right side)



List view + system status panel (right side)

CSNET Manager Web Application

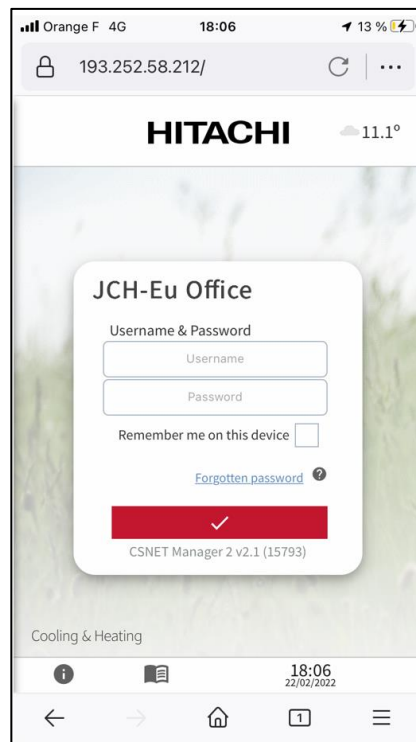
Same view on all your devices

CSNET Touch screens, laptop, smartphone, tablet, all the devices use the same Web interface to control your system.

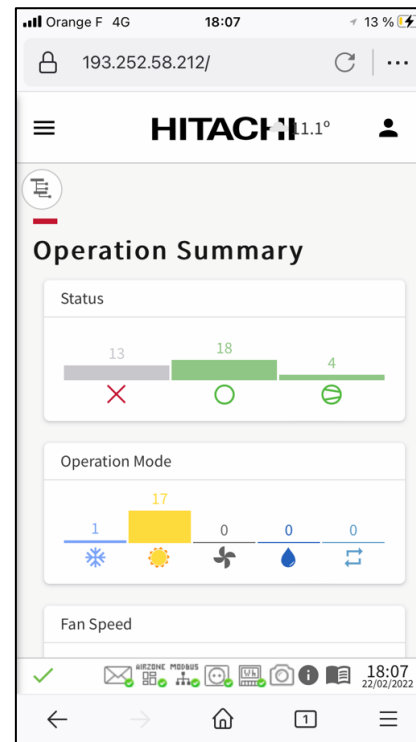
The way to display the units and the available functions will be the same on all your devices, to let you fully control your system wherever your are !

Smartphone views using Firefox Web Browser connected to CSNET Manager 2T10

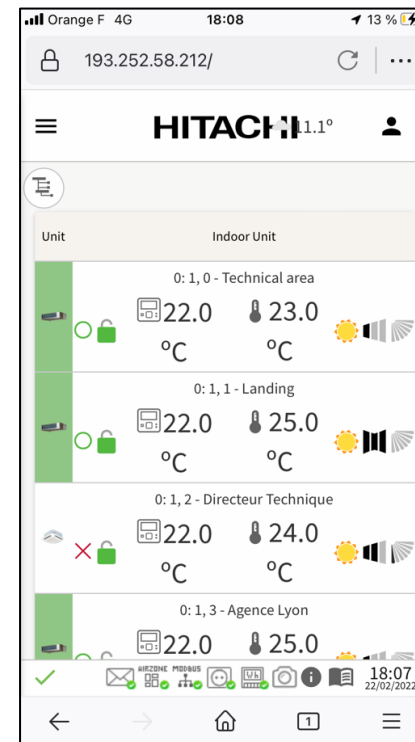
Same display and same data / functions available as on CSNET touch screen or from the Web browser of your laptop!



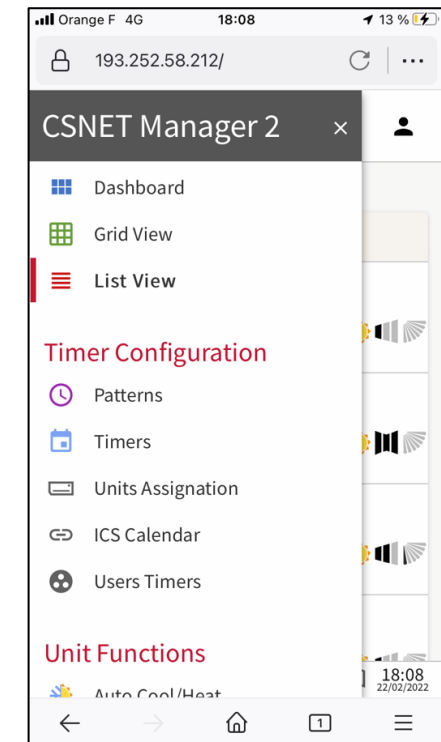
Login page



Dashboard view



List view
(best view for mobile phones)



System menu with all the
functions available

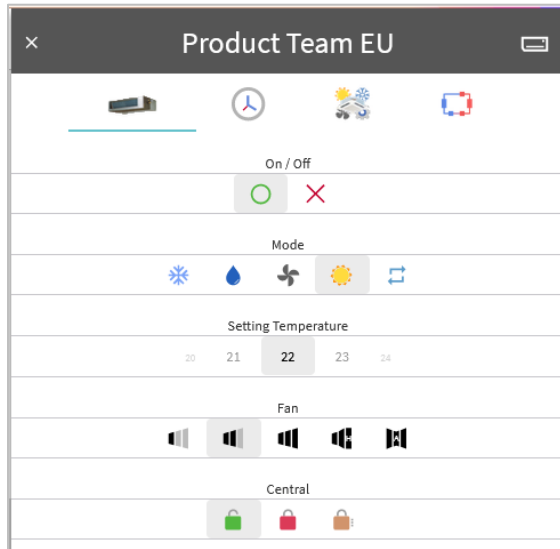
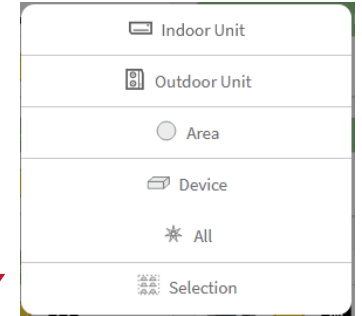
CSNET Manager Web Application

Controlling indoor units

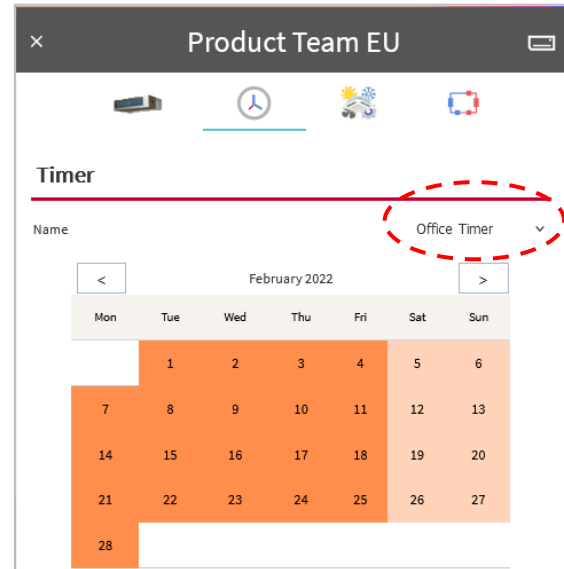
Select one or several indoor units and set the parameters from the control panels. The famous System Status diagram is available to get a quick understanding of the system operations.

Use the unit icon to open the selection menu, to apply orders in one go to:

- One unit
- All units from the same outdoor unit
- All units of the selected area
- All units from the same HLINK interface
- All the units of the system
- To a manual selection of units

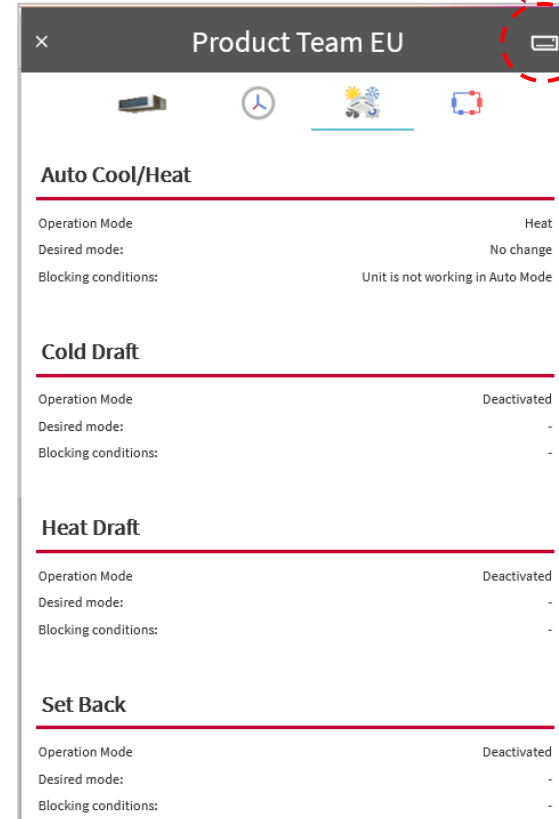
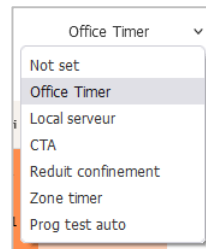


Indoor unit control panel
To set specific setting for one or several indoor unit(s)

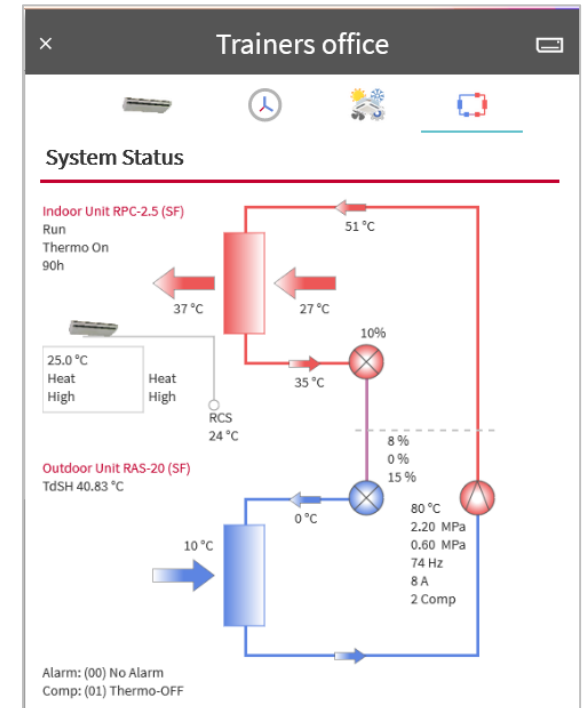


Timer overview

Use the dropdown menu to quickly change the Timer applied to this unit!



Special operation modes dashboard



System status
Display and operation data are related to the indoor unit type

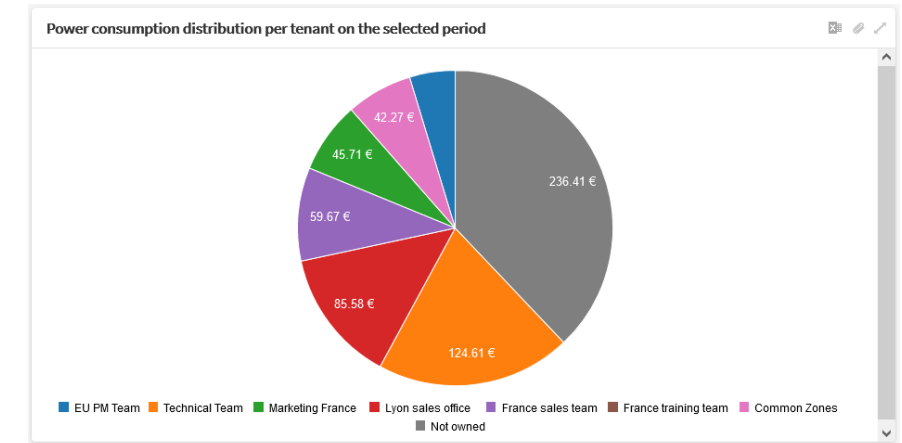
CSNET Manager Web Application: Power metering features

CSNET Manager is able to estimate the power consumption of Hitachi indoor units.

External power meters can be connected to CSNET Manager for advanced power metering features!

Detailed power consumption per indoor unit on the selected period

Tenant	OU	IU	Unit Name	OU	Tenant	System	Energy	Cost
EU PM Team	1	5	Product Team EU	5.96 %	79.11 %	4.9 %	295.92 kWh	23.08 €
EU PM Team	1	15	Directeur PM EU	1.58 %	20.89 %	1.29 %	78.16 kWh	6.1 €
Technical Team	1	0	Pole Technique	16.25 %	50.46 %	13.35 %	806.23 kWh	62.89 €
Technical Team	1	2	Directeur Technique	15.4 %	47.84 %	12.66 %	764.38 kWh	59.62 €
Technical Team	1	13	Directeur Service France	0.54 %	1.69 %	0.45 %	27.01 kWh	2.11 €



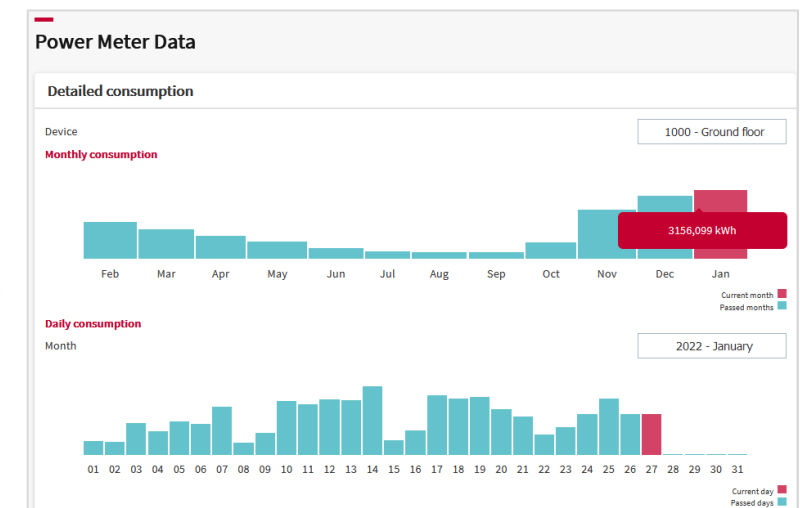
Power distribution estimation per **indoor unit** or per **tenant**.

If the electricity rate is input, **the related cost can be estimated** as well.

Detailed power consumption per tenant on the selected period

Tenant	System	Energy	Cost (Currency/kWh)
EU PM Team	4.68 %	374.08 kWh	29.18 €
Technical Team	19.99 %	1597.62 kWh	124.61 €
Marketing France	7.33 %	586.01 kWh	45.71 €
Lyon sales office	13.73 %	1097.2 kWh	85.58 €
France sales team	9.57 %	765 kWh	59.67 €

Raw data of power meters can be displayed by CSNET Manager, on the dashboard and on a dedicated page.



04

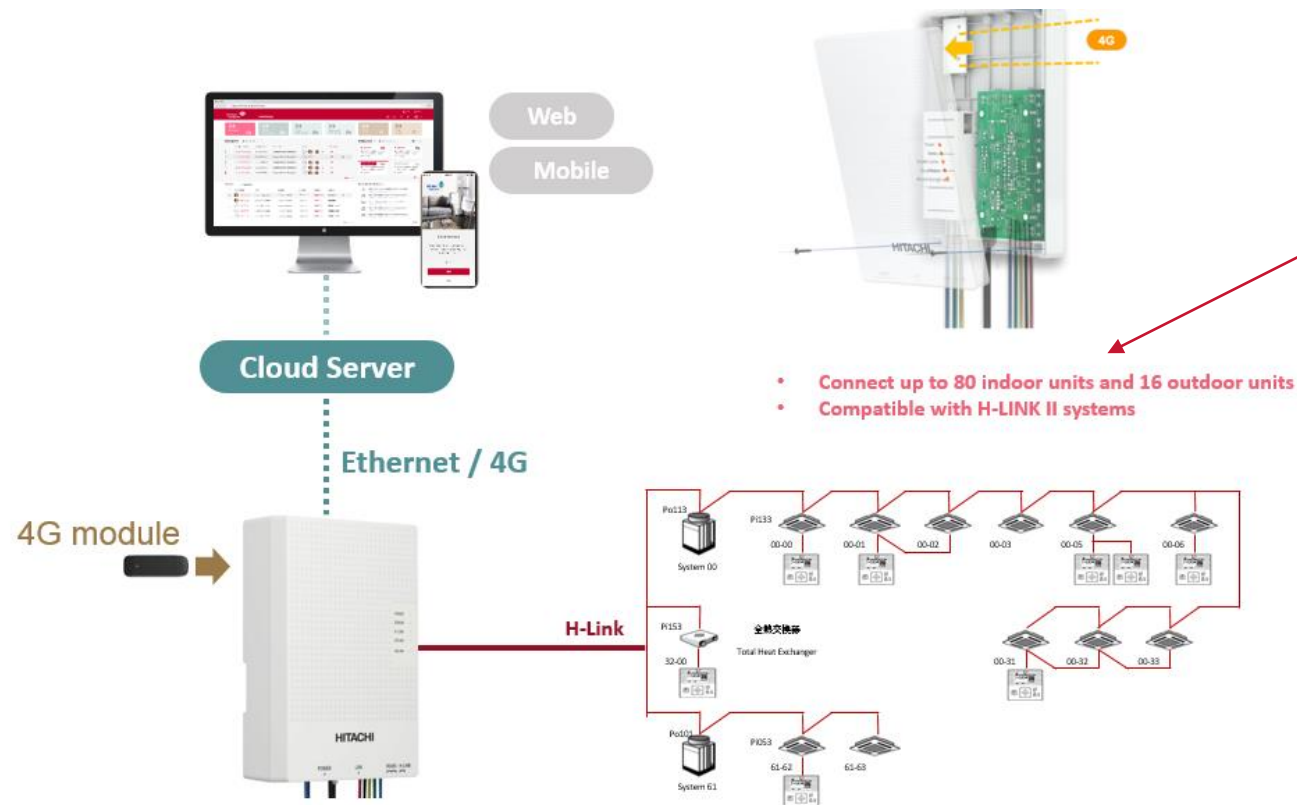
airCloud PRO

IOT solution for Hitachi Standard PAC

Cooling & Heating

airCloud Pro: Concept & Features

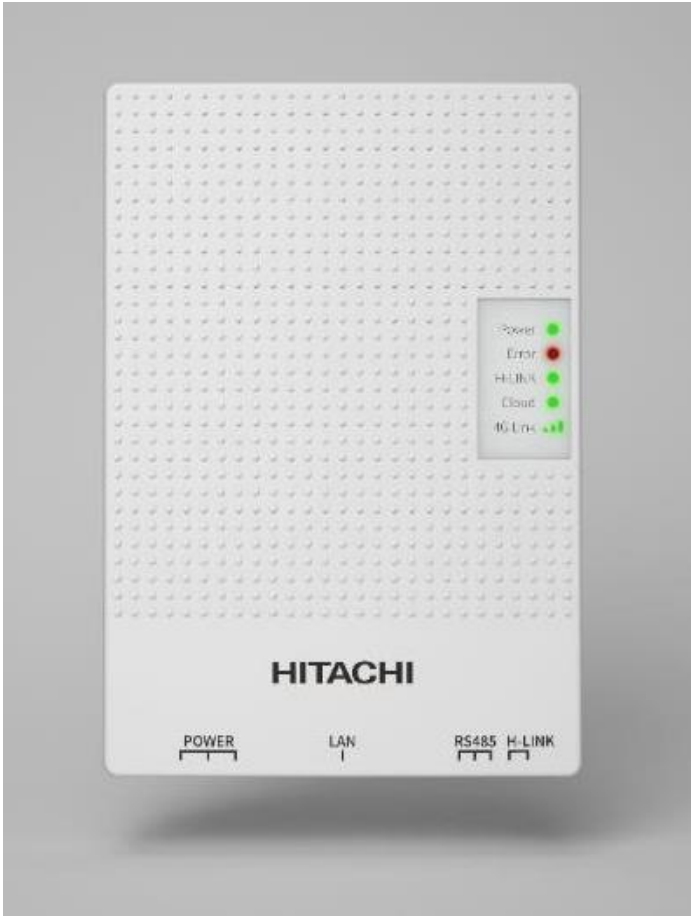
- IoT solution for VRF: cloud-based system to control VRF installations from a dedicated App.
- Cloud based system: a dedicated **server** + a dedicated **gateway connected to Internet** + **mobile / Web Apps** to control the units



airCloud Pro: Gateway specifications

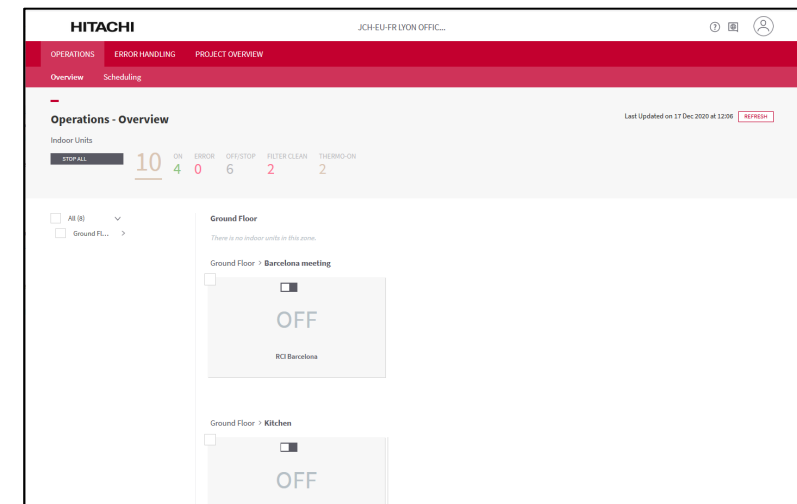
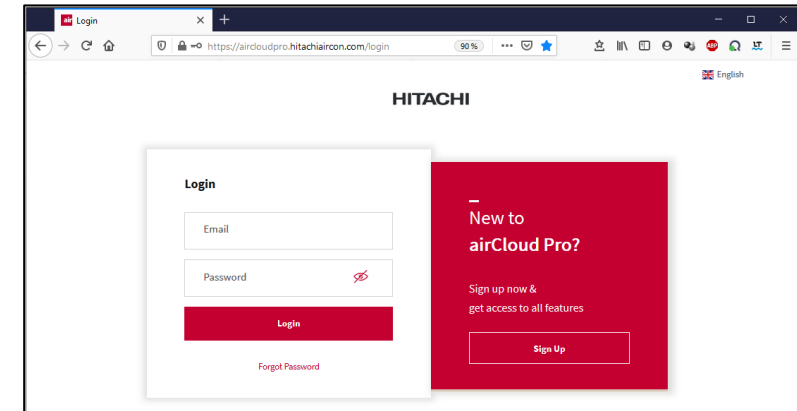
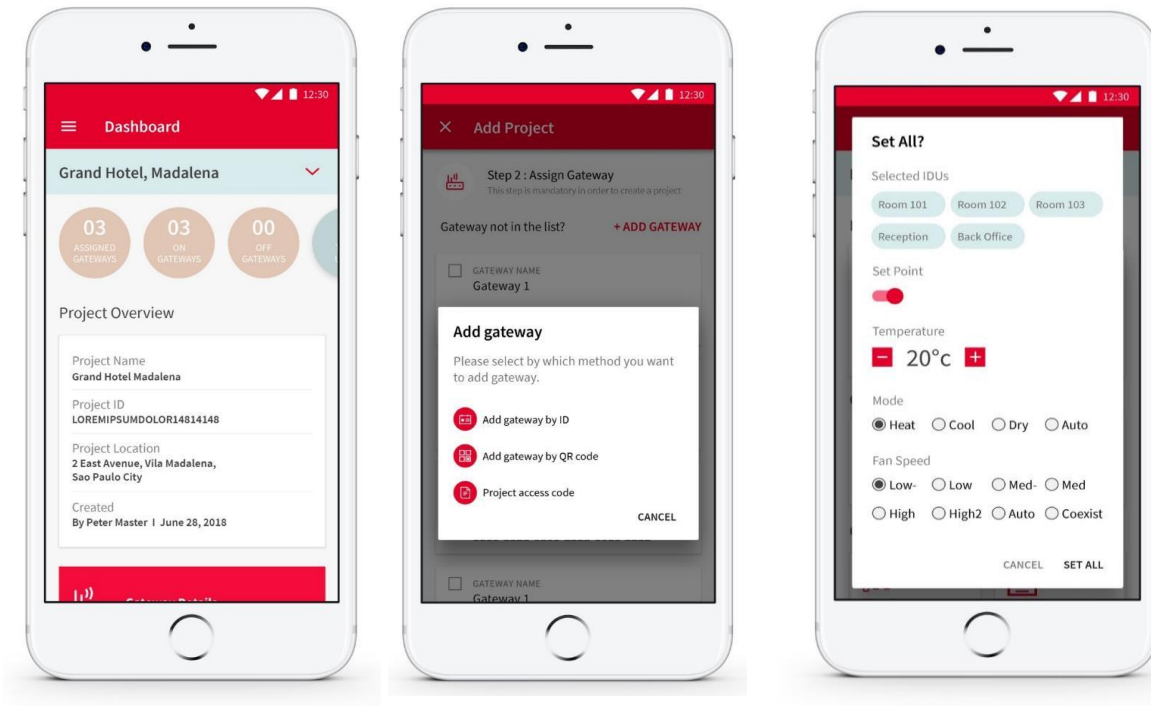
- Gateway reference: **HC-IOTGW**

Specifications	HC-IOTGW
Dimensions	138*200*41mm
Weight	540g
VRF equipment connection capacity	16 outdoor units 64 indoor units (recommended for optimal performances, up 80 IDU max can be controlled, with possible decrease of performances)
Power Supply	100 ~ 240V AC (50/60 Hz)
Max. power consumption	10W
Supported ambient conditions	Operating temperature 0~+40°C
	Storage temperature -10~+50°C
	Humidity 30%~90% RH
Communication type	1 H-LINK, 1 RS485 Port (not used)
Internet connection	LAN, Ethernet, or 4G (additional accessory to purchase as option)
External interface	1 micro SD card slot (log storage)
Certification	CE, CB



airCloud Pro: Applications

- airCloud Pro App is available for Web and mobile devices (iOS & Android)



All the operations and functions are available on the mobile Apps, iOS and Android devices.

It may be more comfortable to set up the installation from the Web App (larger screen) and to monitor your system from the mobile Apps. Up to you!

airCloud Pro: Availability of the service



airCloud Pro Apps release - List of countries		
Albania	Greece	Netherlands
Algeria	Guadeloupe	New Caledonia
Andorra	Hungary	Norway
Armenia	Ireland	Poland
Austria	Israel	Portugal
Azerbaijan	Italy	Reunion Island
Belarus	Kazagsthan	Romania
Belgium	kyrgistan	Russia
Bosnia-Herzegovina	Latvia	Saint Barthelemy
Bulgaria	Lebanon	Serbia
Croatia	Liechtenstein	Slovakia
Cyprus	Lithuania	Slovenia
CzechRepublic	Luxembourg	Spain
Denmark	Macedonia	Sweden
Estonia	Malta	Switzerland
Estonia	Martinique	Tajikistan
Finland	Mauritius Island	Tunisia
France	Mayotte	Turkey
French Guiana	Moldova	Ukraine
French Polynesia	Monaco	UnitedKingdom
Georgia	Montenegro	Uzbekistan
Germany	Morocco	

airCloud Pro is currently suspended in Russia, because of a special regulation related to end user personal data.

airCloud Pro: For which Hitachi products?

airCloud Pro is compatible with **air-to-air HLINK VRF** units

Compatibility with JCH-EU VRF range: **HLINK 2VRF (Sigma, air365Max)**, mini VRF, IVx, Centrifugal, Standard PAC, all HLINK2 units

- Older units (FSN/FSN1) have not been tested officially (basic command functions can work)
- **RAC units** with PSC-6RAD or SPX-RAMHLK are compatible, with limitations on some settings
- **PRIMARY units** with **HCAA01NEWI** are now compatible (from beginning 2023, update of the HLINK adapter HCAA01NEWI)
- **airCloud Pro** is **NOT compatible with any air-to-water system**: Hydrofree, YUTAKI, YUTAMPO **cannot** be used with airCloud Pro.

Compatibility with non-EU units (HAPQ models sold in Turkey, Northern Africa)

- All the units sold in areas managed by JCH-EU have been tested and are compatible
- Main compatible models: HNBCMQR, HNBMRQR and FSN6QR series



airCloud Pro: List of features

User Registration and Account Management

- Secure and Unique login account for each user (operator and installer)
- Ability to track each user's activities
- Unlimited number of simultaneous users to access through web and mobile app
- Ability to access and manage multiple projects (sites) through one single account
- Allows for project installation and operation collaboration among installers and operators (share projects, invite users to your projects...)
- Dedicated view for Facility Operator and Installers respectively

IDU Address and Zone Configuration:

- Auto discovery of units on HLINK line
- Dashboard for quick display of total gateways and projects
- Easy setup to add Gateway via QR code
- Unlimited number of Gateways can be connected into one single project (site)
- Unlimited levels and numbers of zone creation (beyond traditional block, area, layer concept)
- Ability to create zones freely across Gateways and control VRF system freely across multiple Gateways in one single view

Multi-Language Support

- English, French, German, Italian, Spanish and Portuguese as a first step
- More languages to come in the future (to be confirmed)

Operations Dashboard (Overview Screen)

- Quick reference for IDU status, Error status and Filter sign
- Quick access button for All-On / All-Off for entire system and each primary zone
- Easy and quick access to the zones of the installation

Operations Panel (Operations Screen)

- Optimized System Operation View with list and IDU card view
- Combined IDU status display icon with control button for easy and quick operation
- Added quick selection of zones in the left panel for each setting change
- Ability to view and adjust setting for mode, fan speed, louver, schedule, and RC lock
- Ability to display error code and filter clean for each individual IDU
- Indoor and outdoor units running date can be monitored from airCloud Pro App, data can also be exported to Excel.



Scheduling

- Simplified scheduling allows simple and intuitive schedule creation, with holiday and exception days
- Ability to create 16 schedule patterns per day

Error Management

- Ability to display error list with error descriptions – current and past
- Store error history in cloud for anytime reference and trouble shooting
- Alarm history can be exported to Excel.

Power consumption features

- Running hours and system power consumption can be displayed on graphs
- Data can be exported to Excel file
- Power data are based on the system running data, no external power meter is required.
- Eco Genius function: automatic set point management according to the electricity rate

Connection fees to the server

- 10 years connection fees to the server are included with the HC-IOTGW

airCloud Pro – IoT solution for Hitachi VRF

How can airCloud Pro help you to manage your HVAC installation?

- **Easy connection to Internet for your VRF system!**
 - Connection using a DSL router
 - An optional 4G USB dongle shall be available soon
 - Download the mobile Apps or use the Web App at <https://aircloudpro.hitachiaircon.com/login> to get started!
 - Once your account is connected, onboard your gateway using the dedicated QR code
 - All the indoor units of your system will then be available on your new installation project
 - Organize your project by creating zones and affecting units to the zones
 - Start monitoring and controlling your units from your mobile or laptop, wherever you are!
 - Add users or invite existing airCloud Pro users to your project, depending on your needs!
- **Easy Schedule and basic system monitoring**
 - Control all your installation from airCloud Pro App at anytime!
 - Create simple weekly timers to manage your system
 - System operation data can be visualized online or exported to Excel for a more detailed analysis
 - An estimated power consumption will be automatically displayed after 24h of operation.



airCloud Pro – IoT solution for Hitachi VRF

How can airCloud Pro help you to manage your HVAC installation?

- Configuration for large VRF systems or to monitor remotely several installations

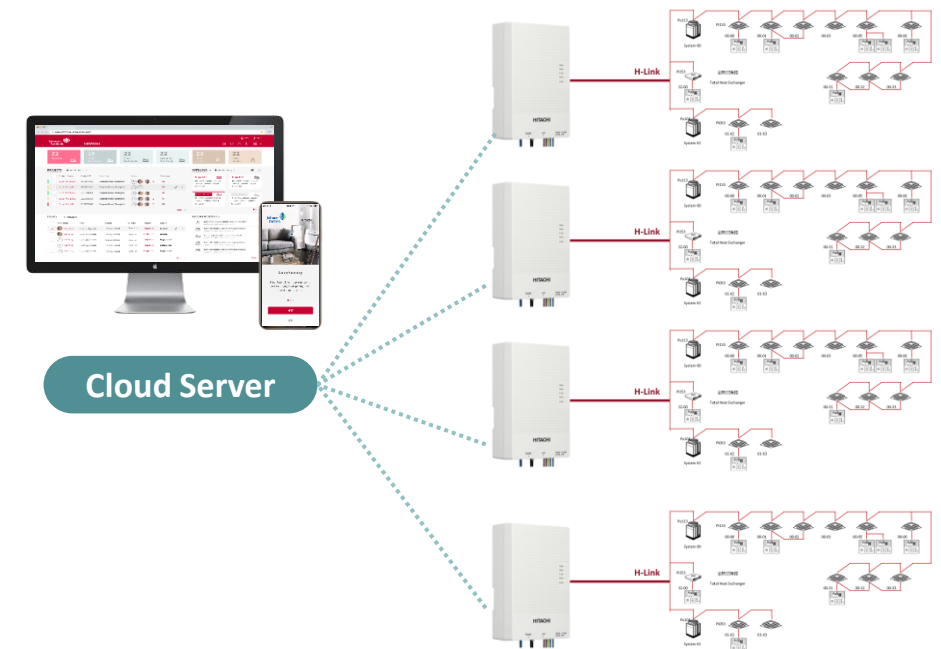
One large system can be made of several gateways that will be attached to one or different projects.

You can manage all your projects (different buildings) from one user's account, and several accounts can access to the same projects or to some of them.

- There is no limitation on the number of gateways per project or per user's account.
- There is no limitation on the number of user's account that can be created.

This connection concept can be used to manage very large systems and also to monitor remotely several branch offices of your organization.

Note: so far airCloud pro is not allowing to create different user's profile with limited rights or access limited to some indoor units. This feature is expected in future updates.



airCloud Pro: Overview

HITACHI



Connection page and “Installer” views

Browser window showing the Hitachi airCloud Pro login page. The URL is <https://aircloudpro.hitachiaircon.com/login>. The page features a login form with fields for Email and Password, a Login button, and a Forgot Password link. A red overlay on the right asks "New to airCloud Pro?" and offers a Sign Up button.

HITACHI

2 Total Projects 3 Total Gateways 1 Free Gateways 2 Assigned Gateways

FREE GATEWAYS (01) **ASSIGNED GATEWAYS (02)** [+ Add Gateway](#)

Gateway Name	Gateway ID	IP Address	Units Status
Showroom	18CC885000C591527389	192.168.0.46	2 Units

MY PROJECTS(02) [+ Add Project](#)

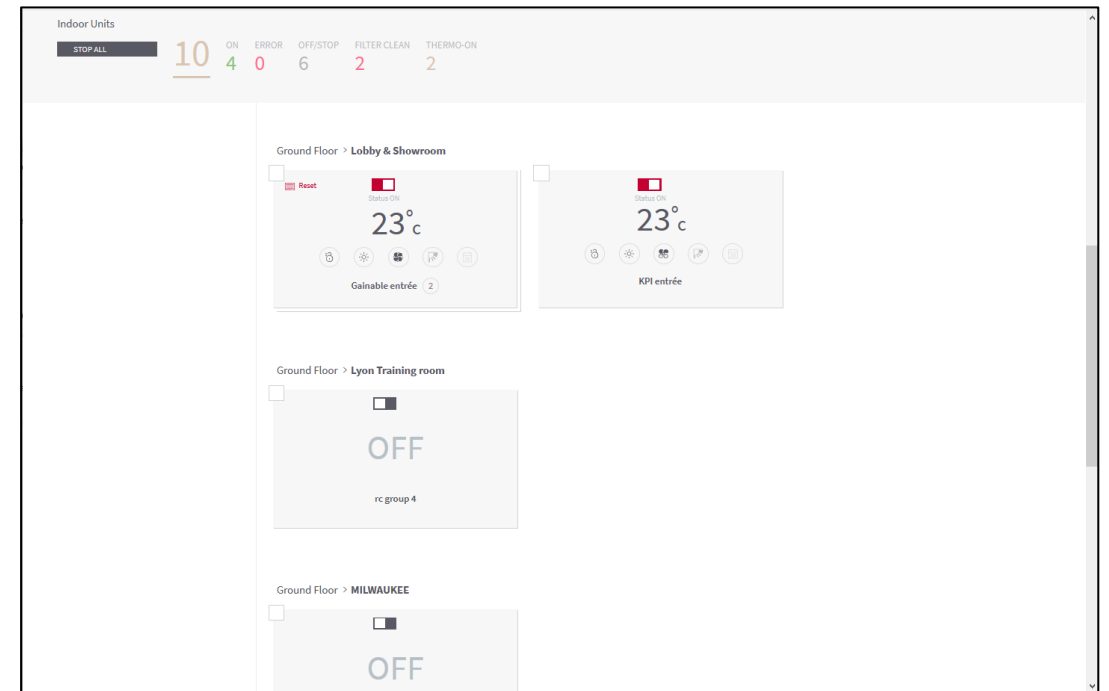
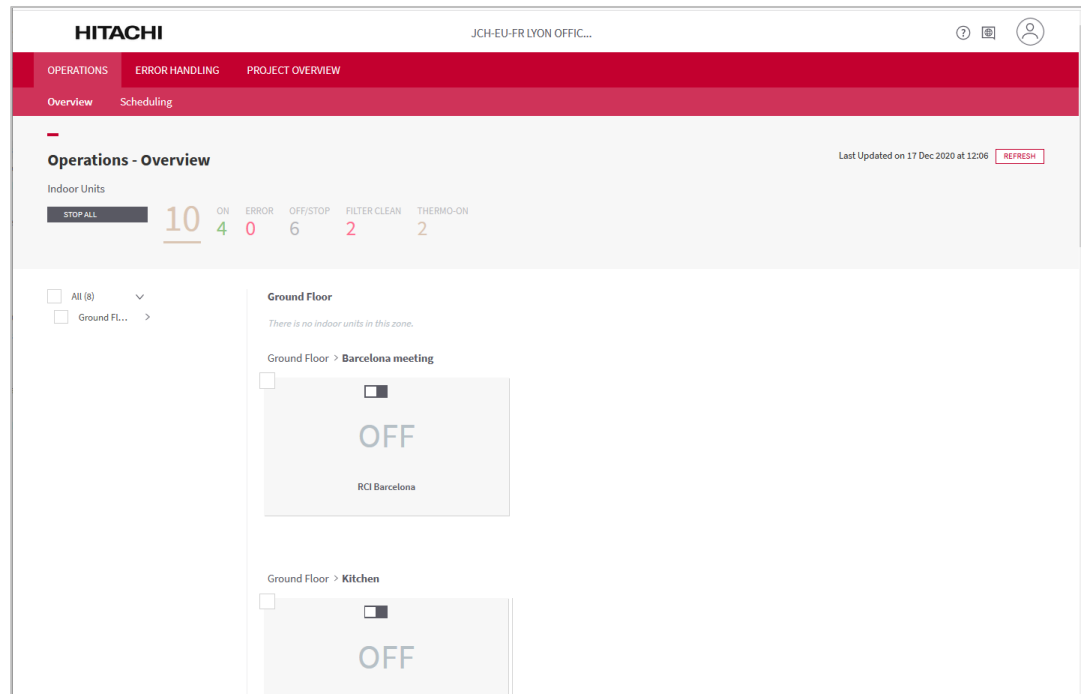
PROJECT NAME	Location	Project ID	Users	IDUs	ODUs	Gateways
JCH-EU-FR Lyon ...	2 RUE DE LOMBAR...	908D33722	5	10	1	1
Agence Clim Con...	St Jean de la R...	74B2DB1C2	2	11	1	1

airCloud Pro: Overview

HITACHI



Operation view, indoor unit control interface



airCloud Pro: Overview

HITACHI



Project Overview

Create zones

Manage your gateway

Manage users

HITACHI

JCH-EU-FR LYON OFFIC...

?

🔒

👤

OPERATIONS

ERROR HANDLING

PROJECT OVERVIEW

1

Assigned Gateways

1

On Gateways

0

Off Gateways

9

Total Installers

9

Total Operators

PROJECT OVERVIEW

Project Name

JCH-EU-FR Lyon office

Project ID

908D33722

Created By

Jean Michel PERON

Project Location

2 RUE DE LOMBARDIE

Created Date

Feb 18, 2020

Zoning

Zoning is active now. Last updated on 13 Aug 2020 .Time : 1:32 AM

View Zoning

ASSIGNED GATEWAYS(1)

#	Gateway Name	Gateway ID	IP Address	Units Status
1	iOT gateway showroom	18CC8850007B91450915	192.168.0.43	11 Units

USERS (9)

+ Add User

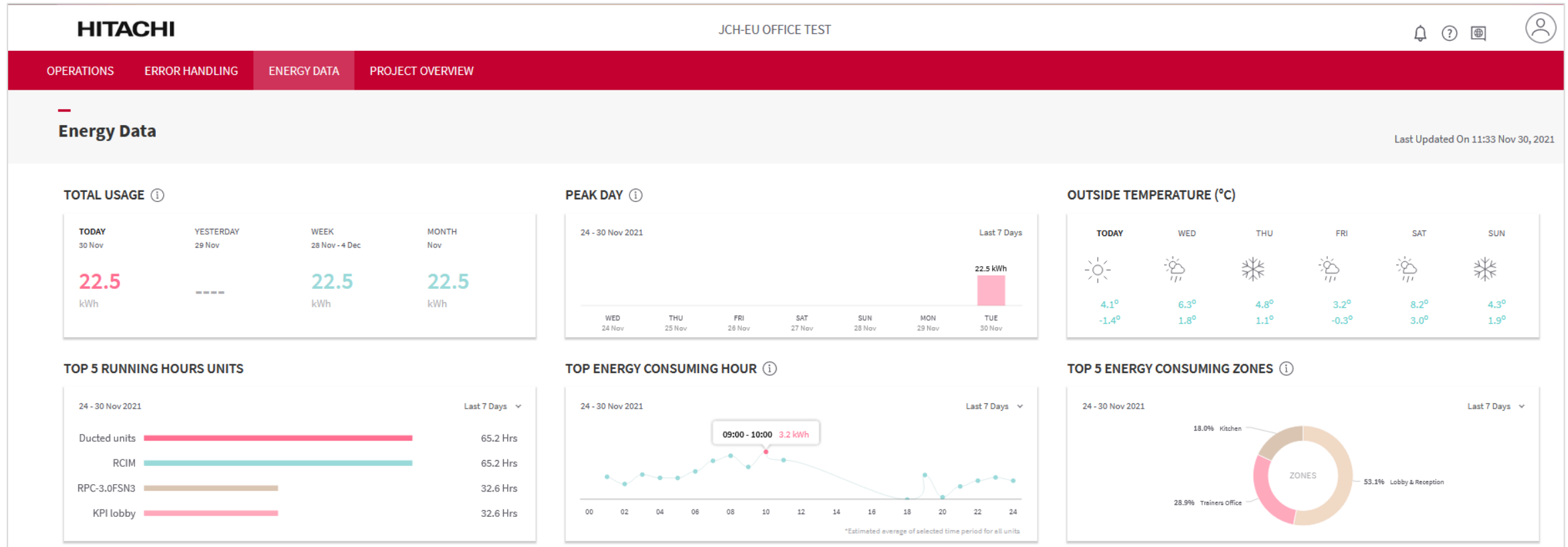
Name	Email	Mobile	Status
Aurelien SEROL	aurelien.serol@jci-hitachi.com	+33787298197	REGISTERED
Boris VODIAMA	boris.vodiama@jci-hitachi.com		INVITED
Deepak Tripathi	deepak.tripathi@jci.com	+919136611454	REGISTERED
Frederic Segault	frederic.segault@jci-hitachi.com	+33689089865	REGISTERED

airCloud Pro: Overview

HITACHI



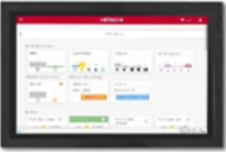



Power consumption Dashboard



No external power meter is necessary to get the power consumption of Hitachi units.

airCloud Pro is currently not able to manage external power meters.

ADVANCED CENTRALISED CONTROL SYSTEMS – COMPARISON CHARTS

Device / Features	Product range	User local interface	Picture	HLINK Gateway	Compatibility	Target application & features	Price level
CSNET Manager 2	Premium	High resolution touch screens 10" or 15" CSNET Manager 2T10 CSNET Manager 2T15		HC-A64NET CSNET Lite	HLINK units: VRF & IVx Hydrofree YUTAKI 2016 YUTAKI 2021	Medium to large VRF systems Control of VRF + ATW units (HLINK systems) Compatible with RAC & PRIMARY units + AIRZONE systems Multi users access with specific rights / privileges for the functions or IDU control Advanced control features required (Comfort options for IDU, Interlock...) Multitenant installations, flexibility for the office arrangement Power monitoring of A/C units + 3rd party systems Use of input / output dry contacts on IDU or CSNET Lite Connection to BMS system (Modbus, BACnet or KNX)	€€€
	Standard	Screen less interface		HC-A64NET CSNET Lite	Units with adapters:		€€
CSNET Lite	Entry	Laptop, tablet, mobile phone + web App		CSNET Lite	RAC Indoor units Primary indoor units	Small to medium VRF systems Same features as CSNET Manager, applied to small or medium sized systems Management of 64 indoor units maximum	€
airCloud PRO	Entry	Laptop, tablet, mobile phone + mobile / web App		HC-IOTGW	HLINK units: VRF & IVx Units with adapters: RAC Indoor units (with limitations) Compatibility with Primary indoor units is expected by September 2022	Small to large VRF systems Control of VRF Air-to-Air units only (HLINK units) Simple control of the units with web or mobile applications Alarm notification and alarm history available for remote maintenance Indoor and outdoor unit live data available for remote troubleshooting Power consumption data available, without external power meter Perfect solution for light commercial buildings requiring basic control features	€

Device / Features	HLINK interface	Unit / HLINK interface	Max qty of units / system	Local control	Remote access type	Cloud access	Internet connection mandatory ?	Web App	Mobile App	Unit compatibility	Basic IDU control functions	Timer	Alarm report	Advanced historical data	Comfort function for IDU	Power consumption features	Interlock control	Advanced Multitenant features
CSNET Manager 2	HC-A64NET	64	1024	Yes	Local	x	No	Yes	x	VRF, ATW,	Yes	Yearly	Yes	Yes	Yes	Yes	Yes	Yes
CSNET Lite	CSNET Lite	64	64	Yes	web server	x	No	Yes	x	RAC, PRIMARY	Yes	Yearly	Yes	Yes	Yes	Yes	Yes	Yes
airCloud PRO	HC-IOTGW	64 (80)	not limited	backup only	Cloud	Yes	Yes	Yes	Yes	VRF, RAC (ATA only)	Yes	Simple weekly	Yes	x	x	Yes	x	x

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Thank you!