airCloud Home Adapter SPX-WFA **Operation and Installation Guide**

General Information

airCloud Home is an cloud-based solution for remotely controlling your Hitachi air conditioning system via smart phone. The airCloud Home Adapter SPX-WFA is used to connect your air conditioning system to Cloud through your Wi-Fi home router. Please read the guide and safety precautions before installing the Adapter. The installation is required to be performed by a professional. Please follow all of the instructions below carefully and keep the guide for the entire life of the Adapter. Any installation or use not foreseen by Johnson Controls-Hitachi Air Conditioning will be deemed non-compliant. This would invalidate the warranty and discharges Johnson Controls-Hitachi Air Conditioning of all liability, as does any failure to comply with the instructions given herein.

General Safety Advice

- Do not try to open the housing of the Adapter. Avoid dropping or impact and Never immerse the Adapter in liquid. - Do not use abrasive products or solvents to clean the housing of the Adapter. Its surface can be cleaned using a soft
- dry cloth. - Do not use the Adapter outdoors. Do not route the connection cable outdoors.

- Any use or modification of the equipment not foreseen by Johnson Controls-Hitachi Air Conditioning could endanger users.

Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

Indicates information considered important, but not hazard-related (for example, messages relating

NOTICE to property damage)

Indicates a hazardous situation that, if not avoided, could result in death or serious injury

For Installers

Make sure there is no dust on connection points such as the power terminals and/or on the cable. Risk of fire or electric shocks.

- Only use the cable supplied. It must not be altered. Risk of cable heating, resulting in a fire.
- Do not install the Adapter near devices that could be affected by radio waves.
- Do not allow children to touch the Adapter. Risk of injury.

- Do not install the Adapter in a location where devices using radio frequencies as a transmission medium are prohibited (refer to the applicable local standards).

Do not install the Adapter in a location where there may be people with heart pacemakers.

NOTICE

Avoid installing the Adapter in an environment with high humidity (e.g. bathroom).

For Users

- Do not operate the air conditioner with ambient humidity above 80%. Water droplets may collect on the moving flaps and drip onto and damage equipment placed under the indoor unit. The damage may be worse if the problem is not detected during remote operations from App.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction
- concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.

- Make sure that the Air Conditioning unit is active during Wi-Fi communication operations.
- Abnormal operation may result in fire or electric shocks. Have the Adapter installed by a qualified installer.

- 1 -

- (4) Connect the connecting cord to the electric box as shown on figure (e). The connector on the electric board is usually marked as CN7. The position of CN7 connector may vary depending on the air conditioning model. Refer to the air conditioning system installation manual to confirm the connector number.
- (5) Close the cover of the electric box, taking care not to trap the cable. Close the front cover of the air conditioning unit. Refer to the air conditioner installation manual for instructions on closing the electric box and closing the front cover



Figure (e)

(6) Insert the hole side of the ②fixing clip into the groove of (7) Insert ②fixing clip and clamp to the right side lower ①Adapter.



cover of indoor unit.



Packing List

No.	Name	Qty.	No.	Name	Qty.
1	Adapter with connecting cord (1.0m)	1	3	SSID&KEY Label	1
2	Fixing clip	1	4	Operation and Installation Guide (this manual)	1

Paste ③SSID&KEY label on the space on the right side as shown in the figure on the right, and please write down the installation location (like living room, bed room, etc.) on the label.

COID.	
KEY:	
INC. I.	

Product Component Name





0

Installation Procedure



(1) Please reserve more than 40mm space in the lower part of the indoor unit as shown on figure (a)

(2) Remove the front cover of the air conditioning unit and the cover of the electric box. Refer to the air conditioner installation manual for instructions on removing the front cover and to open the electric box.

(3) The connecting cord supplied with the Adapter must be connected to the electronic board inside the electric box. Please pull the connecting cord from the connecting cord outlet as shown on figure(b), figure(c) and figure(d).



- 2

Status Indicator (LED Indicator may light up while the air conditioner is turned off)

Indicator	Corresponding Status
All LEDs are off.	Adapter and the air conditioner are not connected or the air conditioner is not plugged in.
D 1 D 2 MODE POWER	Power is on.The connection with the Wi-Fi router has not been established.
Line LED 2 faster	• Waiting to connect to the Wi-Fi router using AP mode.
The second secon	• Waiting to connect the Wi-Fi router using WPS mode.
I D MODE POWER	The connection between the Adapter and the router is completed.The operation can be conducted through smartphone.
All LEDs flash 4 times repeatedly.	Restoring factory setting procedure has started.
D 1 D 2 MODE POWIN	Power LED flashing 5 times: Air Conditioner communication error. Power LED flashing with 4sec ON/1sec OFF: Router connection error. Power LED flashing with 4sec ON/1sec OFF: Cloud expection error.



(8) Please confirm the air conditioner installation manual on how to install the lower cover of indoor unit.



Note

Please try to power OFF/ON your air conditioner from power cord when an error occurs.

Restore Factory Setting

Reset the internal settings (restore the factory settings) by pressing and holding MODE button for 15 seconds. Please note that the configuration will be cleared and new pairing procedure will be required to use the Adapter. Please restore factory setting when discarding this Adapter.

(1) While the power light turns on, keep pressing MODE button until the LED flashes (about 15 seconds).



(2) Make sure all LEDs flash 4 times repeatedly

(3) Only the power LED turns on after restoring factory setting succeed.



Initial Setting of App

Installation of App

Go to Google Play or the Apple Store (depending on your smartphone) and download the "airCloud Home" Application. X Please read and agree to "the Terms of Use" on the App.

- * The App is free. Communication charges will be incurred for download and operation as per the local cell phone provider.
- ※ Android is a trademark and registered by Google LLC.
- iPhone is a trademark and registered by Apple Inc.
- * QR code is a trademark and registered by DENSO WAVE Inc.

Registration on App

- (1) Click "Create Account".
- (2) Enter your name and click "Continue".
- (3) Enter your phone number and password (or click "E-mail" tab, and enter your E-mail address and password), read the "terms and condition" and check on the box, click "Continue".



(4) Enter received verification code you received and click "Continue".

(5) Click "Auto-Detect My Location" or Enter address details manually, and click "Finish".

(6) The account has been created successfully.

)		(5)
8.00		8:00
Create A	ccount	Create Account
ap 3 of 4		Step 4 of 4 + Hardatory
	* Mandatory Flotd	Enter Address Details
nter Verification Cod	le	🛷 Auto-Detect My Location
Please enter the 6-digit we've sent to your mol	t verification code bile number.	0r
C 545-101		Zip-Code
3M32.+91	C Resend Code	State
000-0		City
Conti	nue	Street, Area
		Address Line 1
		Finish





Note:

The first registered user can manage all the users and set access rights as a group owner. Group owner can invite others to register.

Air Conditioner Registration and Router Connection

Make sure that the Adapter is properly installed and the air conditioner is plugged in, then follow the steps below to add your air conditioner device to the App.

(1) Click "Add Air Conditioner" on the top screen after registration and login your App.

(2) Scan QR code on the bundled SSID&KEY label.

(3) Select "Connect using AP method".

(1)	(2)	(3)
4:04 🗢 💻	4:04 🕈 🖿	4:04 1 🕈 🗈
\equiv \bigcirc Ross's Home \checkmark \bigcirc	← Add Air Conditioner	← Add Air Conditioner
Add Member	top 1 of al Scan QR code Please place the QR code in the center of the scanner.	We just a Please select a connection method Select the AP method and follow the step by- step instructions to easily connect the air conditioner. Else, if your wireless network supports WPS (Wreises Notected Schup) you can select the WPS method to automatically connect the air-conditioner to your wireless to support WPS - conditioner to your wireless to the second term of term o
No Air Conditioners Found		
	QIL Code Scanned	Cannes Garged Pressure

- (4) If the SSID shown on the App is your home router, enter your home router password, click "OK". Otherwise, click "Change Wireless Network", select your home router enter password and click "OK".
- (5) Press and hold the MODE button for 3 to 7 seconds until Link LED 2 flashes. The Link LED 2 keeps flashing till communication with the Wi-Fi router is succeeded.
- (6) Click "Change Wireless Network", select the Wi-Fi access point of the Adapter with SSID printed on the bundled SSID&KEY Label, input password (the KEY). Click right arrow icon on the screen top to continue for connecting your smart phone with the Adapter.

(5)

:45 1		🕈 I
Confirm	Wireless	Network
Please note t will be paired wireless network the password (SSID) to pro process.	that your air-o d with the foll work (SSID). F d for your win ceed with the	conditioner lowing Please enter eless network e pairing
SSID: RAC Wi	iFi-1	
	ок	
Chang	e Wireless M	letwork
Want to pair wireless net	with a differe work?	int
If you want b Wireless nets Change Wire connect you network (SSI	o pair the AC work (SSID), c eless Networ r phone to an ID).	with another :lick on the k button to other wireless

- 6 -

Add Air Conditioner transit transit Conset OddApt	4:04	i -	
they 3 of 4 Concert CoAdapter War manythown is currently connected to another writesis network (SISD). Please click on the Change Writes Network Autom of advert to blowing writes network (SISD). These SISD 2014 #860539 Change Writeless Network Keite This despired writeless network despired are the Generative of the Sister	-	Add Ai	r Conditioner
Connect to Mappin: We smartphone is currently connected to manther winterstanding is currently connected to manther winters network (SSD). Please (Cirk on the Change Wiles network (SSD) is connec only the page winters and adjust and process and the page winters and adjust and process SSD C+ 8440059 Password Michael SA 1440 Change Wireless Network Network Network (SSD) (SSD) (SSD) (SSD) Change Wireless Network Michael (SSD) (SSD) (SSD) (SSD) Change Wireless Network (SSD) (SSD) (SSD) Network (SSD) (SSD) (SSD) (SSD) Network (SSD) (SSD) (SSD) (SSD) Network (SSD) (SSD) (SSD) (SSD) (SSD) Network (SSD) (SSD) (SSD) (SSD) (SSD) Network (SSD)	Step 3 of	4	
SSID JCH-85005b9 Password 862dbd7841 Change Wireless Network Note: The adapter's wireless network details can be located at the backside of the adapter. This formation is also available in the user manual	Conne- Your sn anothe the Cha the foll your sn with th	ct to Adapter nartphone is r wireless net ange Wireles lowing wireles nartphone to se pairing pro-	currently connected to work (SSID). Please click s Network button and se ss network (SSID) to conr the adapter and proceec cess.
Password 862dbd7841 Change Wireless Network Note: The adapter's wireless network details can be located at the backside of the adapter. This information is also available in the user manual	SSID JO	(H-886005b9	
Change Wireless Network Note: The adapter's wireless network details can be located at the backside of the adapter. This information is also available in the user manual		Password	d 862dbd7841
	Note: The ad located inform	apter's wirele I at the backs ation is also a	ss network details can bi ide of the adapter. This wallable in the user mani
		SSID:	UCH-12345678
5510: JCH-12345678			

(7) Waiting for the Adapter to connect to your home router. When communication is established, Link LED 1 turns on, Link LED 2 turns off.

(8) Your air conditioner has been successfully configured. You can reconnect your smart phone to your home router following the instruction of the App.



Notes:

- If communication cannot succeed within 1 minute, please follow the instructions of the App to complete the pairing
 process again.
- If a user in the group has already registered some air conditioning units, the other users in the same group can also control the unit.
- The above is the process for using the AP method to add air conditioner. Please follow the guide on the App if you

FCC Declaration of Conformity

Contains FCC ID:TX-RTL8710BN

Contains IC ID:4491A-RTL8710BN

This device complies with Part 15 of the FCC Rules / Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

(1) this device may not cause harmful interference

(2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage,

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

FCC Radio Frequency Interference Warnings and Instructions

CAN ICES-3 (B)/NMB-3(B)

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Basiant or releasts the resoluting enterna
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

choose to use WPS method on step(3).

• Consult the dealer or an experienced radio/TV technician for help.

Technical Specifications

-ABS plastic housing.

-Configuration: AP and WPS.

-Operating temperature: 5°C to 35°C.

-Operating humidity: between 30% and 80%.

-Index protection rating IP30.

-Pollution category: Class 2.

-Dimensions (I × w × h): 80 × 40 × 16.5 mm.

-Wireless LAN standard: IEEE 802.11b/g/n

-Security: WEP/WPA/WPA2/Open.

-Power supply: 12V 150mA DC.

-Integrated antenna.

-Frequency used and maximum power used: 2.4000 GHz - 2.4845 GHz/erp < 100 mW.



CONFORMS TO UL STD. 60335-1 & 60335-2-40 CERTIFIED TO CSA STD.C22.2 NO.60335-1 & 60335-2-40

Responsible party(company name): Johnson Controls-Hitachi Air Conditioning, Inc. Address: 507 E. Michigan St, Milwaukee, WI USA Name and Job Title: Darcey Hanson - Manager, Strategy & Marketing E-mail: BE-VRFTechsupport@jci-hitachi.com Tel.: 414-524-8295

Manufacturer: Johnson Controls-Hitachi Air Conditioning Wuhu Co., Ltd. No.2 Qiluoshan Road, Wuhu City, Anhui Province 241009, China Tel: +86-553-5846669