



A mais completa em soluções para HVAC e Automação.

## Wifi Fan Coil Thermostat



RSA-TWIFI-FC3-1



RSA-TWIFI-FC3-2



RSA-TWIFI-FC3-3

## Product Summary

WIFI series Fan Coil Thermostat is touch screen thermostat with WIFI Function, the thermostats can be controlled by phone App.(IOS and Android phone)It is designed to control the fans and valves in central air conditioner applications via comparison of the room temperature an setting temperature as reaching the aim of comfort and saving energy.

## Technical Data

Power Supply	AC200~240V 50 ~60Hz
Current Load	3A~5A
Power Consumption	<0.5W
External Material	PC+ABS (flame retardant)
Sensing Element	NTC
Set Temp. Range	10-40℃
Accuracy	±1℃
Dimension	86x86x13.3mm
Ambient Temp.	0-45℃,5-95%RH(Non-condensing)
Storage Temp.	-5~55℃
Timing Error	<1%

## Main Functions and Characteristics

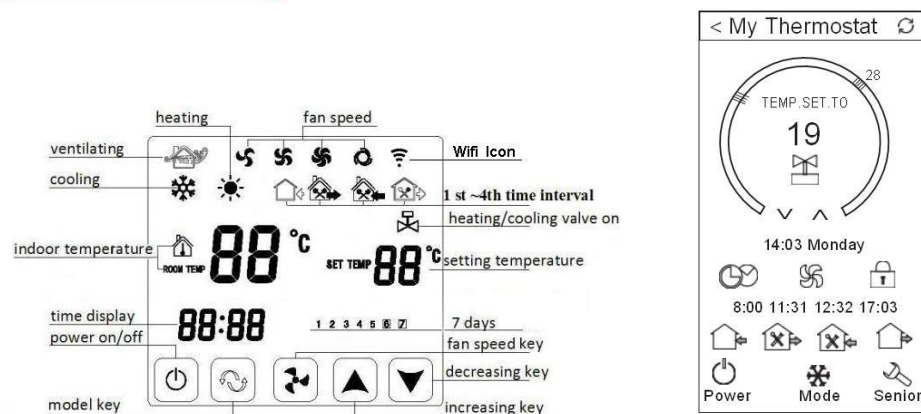
1. Heating, cooling, ventilation mode.
2. WIFI for Android & Apple IOS phone.
3. Large Glass screen display and touch screen type.
4. 2 pipe and 4 pipe for choose.
5. 3 fan speed+Auto.
6. Programmable timing switch function, 4 period a day setting.
7. Temperature compensation when differs from actual temp.
8. Selectable 80mmx80mm European hidden box.(customized)
9. Key Lockfunction.
10. Fan coil in-control and out-of-control adjustable.(only for 2 pipe)

## RSA - A mais completa em soluções para HVAC e Automação

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Solicitar Orçamento



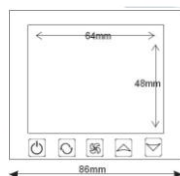
## User Interface Explanation(Thermostat Port)

## User Interface Explanation (Phone Port)

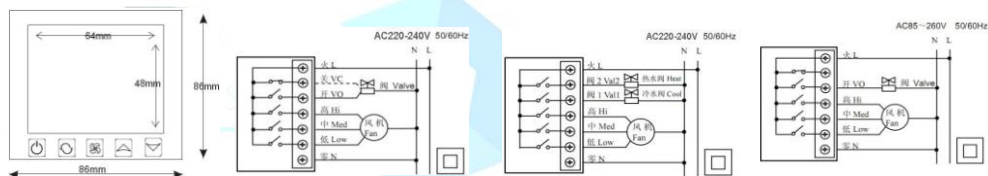
## Model Spec

Model	Current Loading	Program Time switch	Key Lock	Controlled Objects
TWIFI-FC2	3A~5A	√	√	2 pipe central air conditioner
TWIFI-FC4	3A~5A	√	√	4 pipe Central air conditioner

## Dimension



## Wiring Diagram



## 2 pipe(EU:3 wire valve)

## 4 pipe

## 2 pipe

## Thermostat Operation Instruction

### 1. Setting Power on/off

Press to turn on/off the power.

### 2. Setting Temperature

Press to set the temperature.

### 3. Setting the System Mode

Press to select heating, cooling or ventilation. Factory Default is ventilation.


### 4. Setting the Fan Speed

Press to select the fan speed.

is Low speed(Factory default); is Mid speed; is High speed; is Auto speed


In auto mode, the fan will run according to the comparison of room temperature and set temperature.


5. Setting the Real Time.

Press and hold  for 3 sec., hh will flash in the position of hh: mm

Press to adjust the current hour.

Press , mm will flash in the position of hh: mm.

Press to adjust the current minute.

Press ,1 will flash in the position of week: 1234567.



Press~~~~ to adj




Setting the Time-on(Regular Boot)

Press  for more than 3 seconds, after setting the time, continue to press  until  and “hh” twinkling.




Press to adjust the hours

After the adjustment of hours, press  until the “mm” twinkling, press~~~~to adjust the minutes



After the completion of all adjustments,press  to confirm, then  does not twinkle, Regular boot setup is complete




The operation of canceling Regular boot is the same, press to the state of Regular boot, then press ,the  is twinkling, Regular boot has been canceled



6.Setting the Timer off

After the setting of Regular boot, press  again, until~~~~and “hh” twinkling, press to adjust the hours



After the adjustment of hours is completed, press until the“mm”twinkling, press~~~~to adjust the minutes

After the completion of all adjustment, press  to confirm, then ~~~~ does not twinkling,Off timer setup is completed

The operation of canceling Off timer is the same, press  to the state of timer, then press  the ~~~~ is twinkling, Regular boot has been canceled

The setting of the third period and forth period are same with the first and second period, the icons are ~~~~ ( on, off/into the house, out of the house)

7.Setting the Circulation of Timer Switch

After setting the time of timer switch, continue to press , there will be “Loop”, then press , week display area will displays the day of the week, or the transformation of “12345” “123456”, or “1234567”




If the screen only displays the day of the week, then the timer switch setting is valid only for the day.(= “Execute once” in App interface)


If it displays “12345”, then the timer switch is valid from Monday ~ Friday, and Saturday and Sunday will be invalid

If it displays “123456”, then the timer switch is valid from Monday ~Saturday, and Sunday will be invalid

If it displays “1234567”, then the timer switch is valid from Monday ~ Sunday

8. Advanced Setting Mode

In power-off state, press~~~~ and meanwhile, to enter into Advanced Setting. Press to switch dIF, Sh1, SI2, Sh2, SI2, ADJ, FAN, FrE, LOC, ADD, FAC

Display code	Function	Parameters	Factory default
dIF	Deadzone/hysteresis	0.5℃;1℃	1℃
SH1	Max temp in cooling	10~40℃	40℃
SL1	Min temp in cooling	10~40℃	10℃
SH2	Max temp in heating	10~40℃	40℃
SL2	Min temp in heating	10~40℃	10℃
AdJ	Temp. Calibration	-5~5℃	0℃
FAN	Fan coil control mode	0:fan coil in-control 1:fan coil out off control	0
FrE	Anti-freeze function	0:Anti-freeze On 1:Anti-freeze Off	0
LOC	Key lock(button lock)	0:Unlock 1:All locked except  2:All button locked	0

Add	Reserved Port	Please don't modify factory setting value	01
FAC	Factory setting	08:Just display 00: Factory reset	08

Deadzone

Eg, when room set temperature =22℃, dif= 1℃, in cooling mode. When room temp drop to 21℃, the relay stop outputing.

When temp up to 22℃, the relay start output and refrigerate(cooling) again

Advanced Setting in App interface is “Senior”

Phone Port Operation Instruction

1. Install APP on phone



Android QR code



Android QR code(EU)

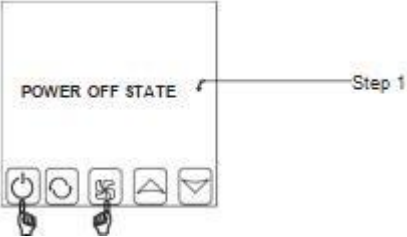




Iphone IOS QR code

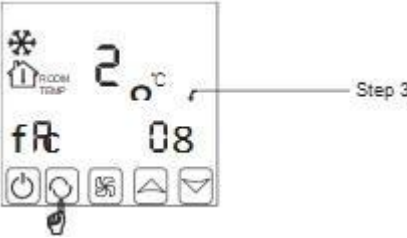
For IOS system: Login in App Store, search “ Smart Wifi AC”,you can download it on your iphone  
For Android System: Login in Google Play, search “ Smart Wifi AC”, you can download it on your phone


2.Connection Thermostat with Phone

Thermostat part Setting




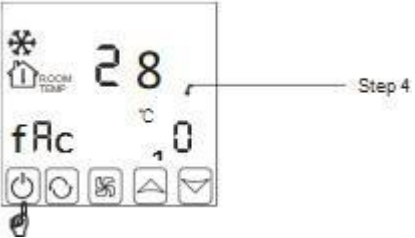
Press and hold~~~~, then press~~~~ button the same time for 2 seconds, then will enter into Advanced Setting.



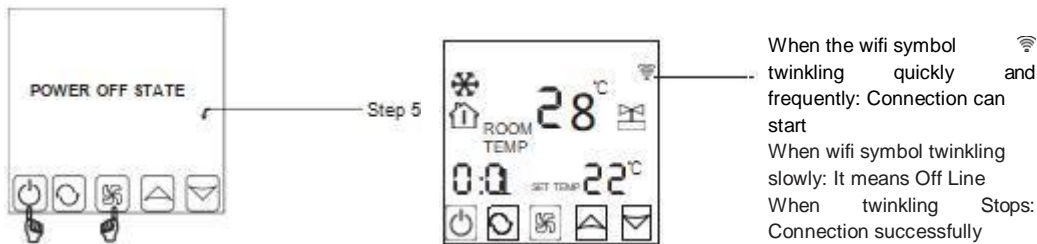
When FAC appears, press to change 08 to 10 or 32, make FAC=10 or FAC=32



After enter into Advanced Setting, press~~~~ for 10 times until “FAC” appear



Then press  to power-off state



Hold on **Power** button, then press **Power** again for 2 seconds, then you can find the WIFI symbol twinkling

At this time, wifi symbol will be twinkling quickly and frequently. It means, you can connect thermostat with phone now. When wifi symbol stop twinkling, it means thermostat is successfully connected with your phone

## Phone part setting

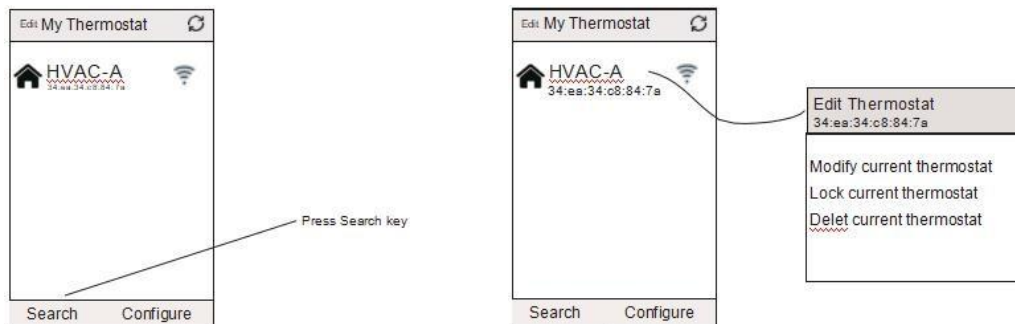
During the WIFI symbol twinkling, Open APP on your phone. When the thermostat Wifi Symbol twinkling fast and continually, you can start the configure on your Phone App



Attention: Only when the WIFI symbol twinkling continually, thermostat connection with phone will be successfully. If wifi twinkling stops but connection didn't finish, enter into Advanced setting to adjust wifi symbol again

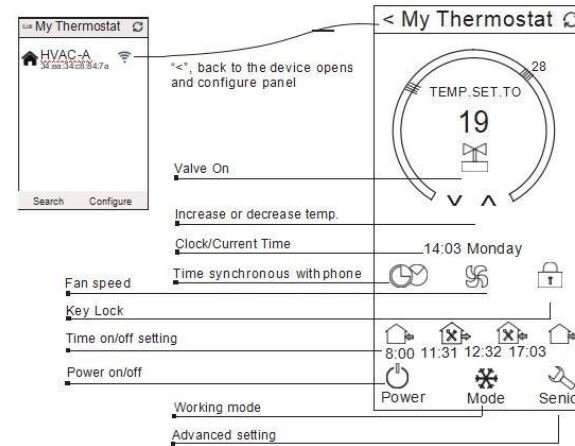
3. After connection success, you need press "Search" key 4. Then it will appear your wifi thermostat HVAC. HVAC

is the factory setting name, when you have more than 2 thermostats, you can change it to any name you want



- Long press HVAC for 5 seconds, it will appear Edit Thermostat page. (IOS phone: slide to left, to edit.)
- Press Modify Current Thermostat.
- For examples: You can change HVAC to room 1, Bedroom Bath room, or anything you like

## APP Interface on the Phone



## Thermostat Setting through Phone Operation

### 1. Clock

Press **Clock** to make the thermostat time synchronize with the current time (your phone time). You will see the words "Time sync success"

### 2. Fan Speed Setting

Press **Fan Speed** to select the fan speed (Low speed, Medium speed, High speed, Auto)

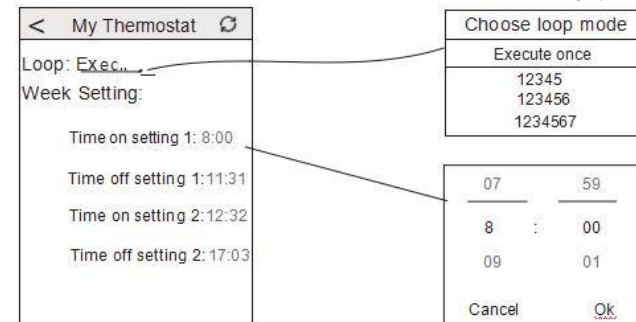
### 3. Key Lock

Press **Key Lock** in the App interface, to lock the button of thermostat. (Go into Advanced setting, you will find 3 locking way.

Unlock; Lock all button except power button; Lock all button)

### 4. Time Switch

Press **Time Switch** 2 seconds to enter into time switch working, you will find bellows



Choose loop mode

Execute once: It means temporary Time on/off for a short time. (several hours or a day)

12345: It means time on/off setting, from Monday-Friday the same.

123456: It means time on/off setting, from Monday-Saturday the same.


1234567: It means time on/off setting, from Monday-Sunday the same

Week setting

You can set 4 time on/off period. For example, For example:


8:00am time-on, 11:31am time-off.(first time switch circle)  
Thermostat start working automatically from 8:00am----- 11:31am

#### 5. Working mode

Press  on the app, you will find 3 working mode for choose

Control mode
Ventilation
Cool
Heat
Cancel

#### 6. Senior(Advanced setting)

Press  for 2 seconds, you will enter into Advanced setting

① dif dif=deadzone/ hysteresis for room temp. Eg, Set=22℃,dif=1℃in cooling mode.

When temp drop to 21℃, the relay stop outputing. When temp up to 22℃,relay output again and cooling

② SH 1 ③ SL 1 ④ SH 2 ⑤ SL 2 ⑥ Adj


When thermostat temp differs from the real temp, you can do some calibration.Calibration range -5~5℃

⑦ FAN Fan Coil Controlling Mode Setting (You can select the fan coil In control & Out-of-control.)

In “F00” mode, when room temp reaches to the setted temp, the fan coil stops working. In “F01” mode, when room temp reaches to the setted temp, the fan coil goes on working.

⑧ FRE Anti-freeze function On, when outage, or power-off state, it keep the room temp between 5-7℃to protect your room Especially for heating mode when in cold weather..

⑨ LOC Lock the button for thermostats. 3 choice:

01: button unlock; 02: lock all button except power on/off button. ;03: lock all button.

<	My Thermostat	↻
①	Setting dif(dif):	1.0℃
②	Max temp in cooling(sh1):	40℃
③	Min temp in cooling(sh1):	10℃
④	Max temp in heating(sh2):	40℃
⑤	Min temp in heating(sh2):	10℃
⑥	Temp compensation(adj):	0℃
⑦	Fan mode(fan):	fan coil In-control
⑧	Anti-freeze function(fre):	Off
⑨	Key lock(loc):	Unlock

### Attention to Phone WiFi Connection:

After you press Configure, if connection fails, please check the belowings:

01. The first time connection, please confirm your mobile phone is WLAN mode, and ensure the (mobile data) 3G/4G turned off.

Please connect to 2.4G WIFI, not 5G WIFI.

02. Please add your WIFI router name, we recommend it does not include space.

03. Please check WIFI router password. We recommend < 32 characters, no spaces, no blank password, no special symbols except letters and numbers.

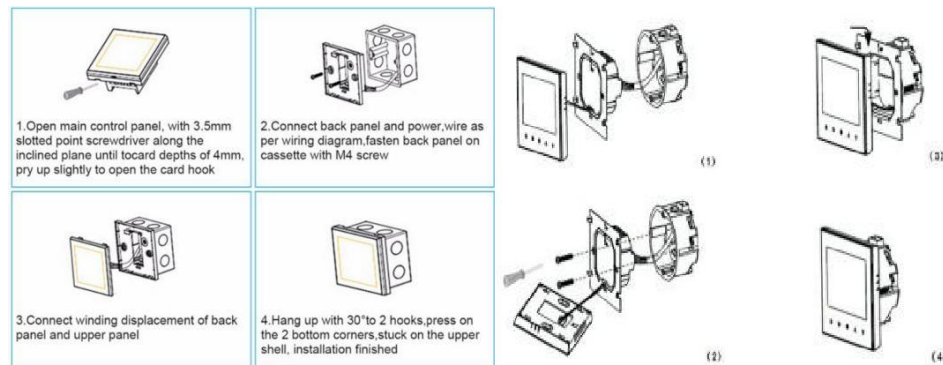
04. Please check module is successfully reset . (operate as instruction) In power-off state, Find FAC mode, make FAC=10 or 32, then turn off.....

05. Please confirm WIFI password is correctly filled.

We recommend your WIFI password displayed, thus to check password easily

### Installation Instruction

The products suits for standard 80\*80mm wall box or 60mm Europe round box(EU Version).



1. Connect the line of power and valve into the terminals. Fix the wall plate into the wall box by a screwdriver.
2. Connect the lines with the LCD board.
3. Connect the LCD board into the wall plate

### Attention

Thank you for buying this product!

Please read this manual for complete instructions on installing and operating your thermostat. If you require further assistance, please feel free to contact us.

#### In the box you will find:

Model	HY03AC WIFI-AC2	HY03AC WIFI-AC4
Thermostat	√	√
User Manual	√	√
Screws	√	√

#### Our Service:

We offer the warranty of 24 months from the sales day.

During the warranty, if it is belong to the quality issue, we will fix or replace by free after testing.

If it is not quality problem or beyond the warranty time, we will charge for the after-sales service.

### Warning:

The symbol means the unit is being installed,it may cause electrical shock hazard during maintaining,so please make sure it is operated by the professional technical worker.