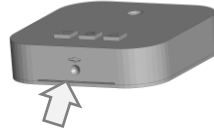**24VAC Heat Pump Thermostat installation guide**

1. Remove the back panel using flat object
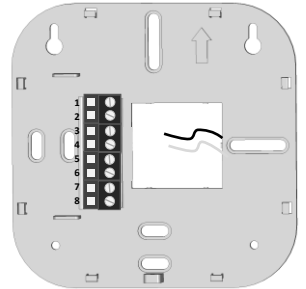
2. Mount thermostat's back cover at upright position or wall. Cut cover and insert AirCon wires
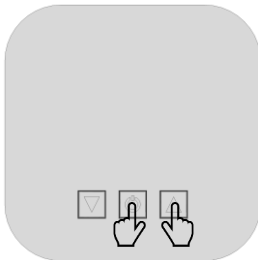
   Up

   Screws

   Cut out

3. Disconnect main power breaker and wire thermostat as follows:

Pin	Wire Color	Heat Pump	Reverse Valve
1	Yellow	Y1 – Cold	Y1 – Compressor
2	Orange / Blue	Y2 – 2nd stage Cold	O/B – reverse valve
3	Green	G - Fan	G - Fan
4	Red	RC – Cold 24VAV in	RC – Cold 24VAV in
5	Red	RH – Hot 24VAC in	RH – Hot 24VAC in
6	Black	C – Common 24VAC	C – Common 24VAC
7	White	W1 – Heat	W1 – Aux Heat
8	Purple	W2 – 2nd stage heat	W2 – 2nd stage heat

4. Attach the thermostat to the back panel by pushing it onto the wall.
   Ensure it is tightly mounted all around (confirm there is no gap)
5. Connect power supplies back
6. Press the thermostat's power button to ensure the thermostat is connected properly. The display should show the room temperature

7. Setup the thermostat:

   a) Press ⏻ to Power On thermostat
   b) Hold ⏻+ ▲for 3 sec. to enter setup (light will flash)
   c) set 'parameters' with ▼▲
   d) press ⏻ to change setup mode
   e) Follow setup page bellow

Setup Mode (marked = default)

1. ⁰F → ℃ ↻
   Temperature mode select:
   ⁰F is Fahrenheit (default)
   ℃ is Celsius

2. ΞS → Ξ0 → Ξb ↻
   Select AirCon Type:
   ΞS is standard aircon with separate heat and cool valves (default)
   Ξ0 is reverse valve aircon with orange wire
   Ξb is reverse valve aircon with blue wire

3. FA → F1 → FC ↻
   Fan Logic:
   FA is Automatic Fan (fan stop when aircon reaches the set point)
   F1 is Fan Always On (no matter what is the set point)
   FC is Fan work only in Cool mode (fan stop when aircon reaches set point and in heat mode)

4. E1 → E2 → E0 ↻
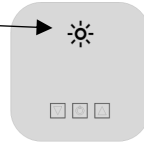   Set point limiting range:

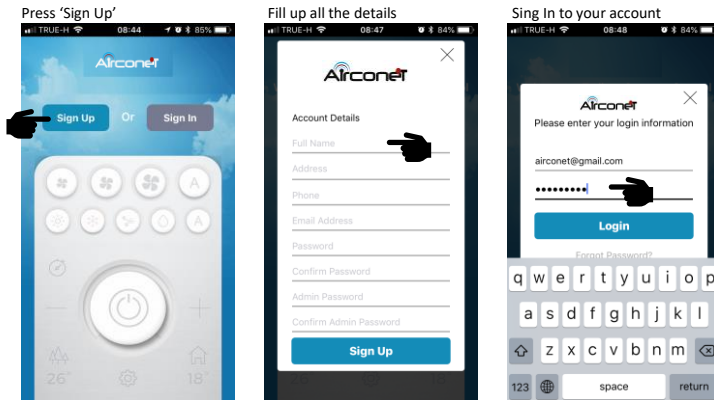 | | ⁰F | ℃ |
   |------------|-------|-------|
   | E1 (default) | 60-90 | 16-32 |
   | E2 | 65-85 | 18-30 |
   | E0 | 40-95 | 5-35 |

5. L1 → L2 → L3 → L4 → L5
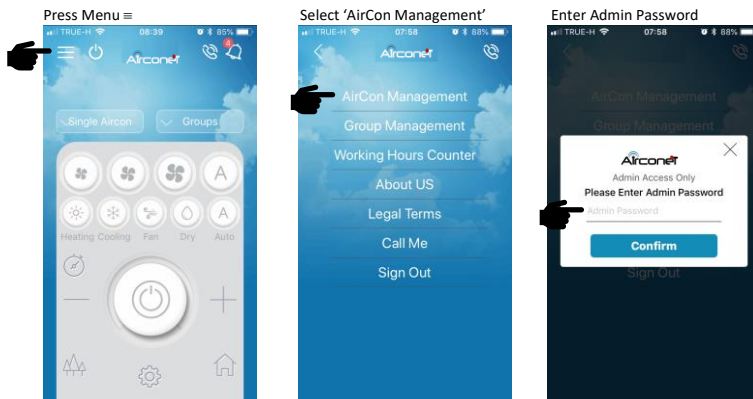   AirCon brand IR code selection (optional)

App Setup

1. New thermostats have red light flashing indicating the thermostat is not connected to the network
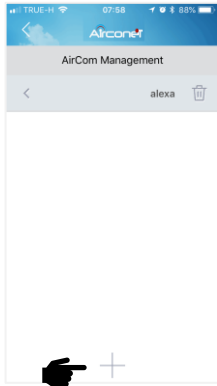
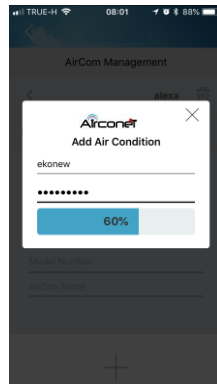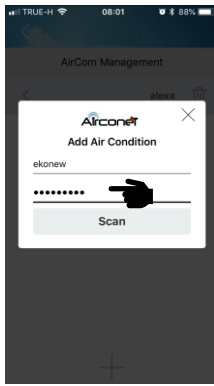2. Download EKON App to iOS or Android phone from App Store

3. Create an account:

Press 'Sign Up'   Fill up all the details   Sing In to your account

4. Connect thermostat to network as follows:

Press Menu ≡   Select 'AirCon Management'   Enter Admin Password

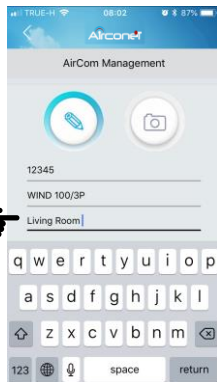Press '+' to add new thermostat

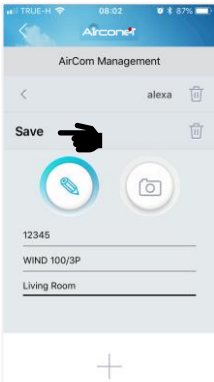Enter Router's password and press 'Scan'. Wait few seconds

If the thermostat was added successfully, the red light will go off.
Otherwise try again ensuring there is wifi reception in the thermostat's area
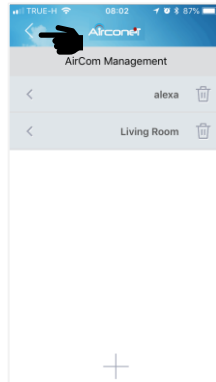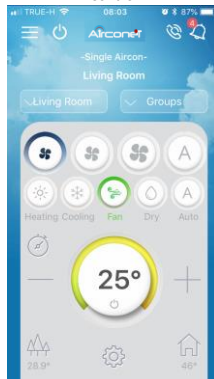
Fill up Thermostat's details
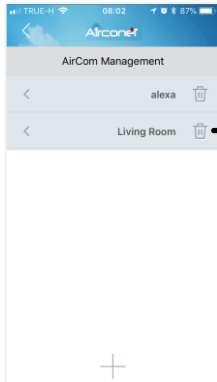
Press 'Save'
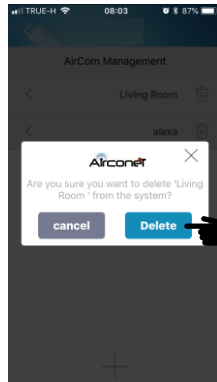
Thermostat added. Go back

Control

5. Delete Thermostat from App and network (to replace router)

Enter Setup mode (see above)
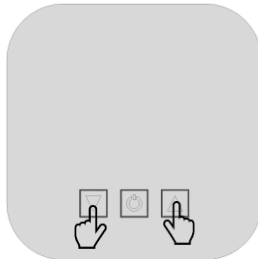Press BIN next to name
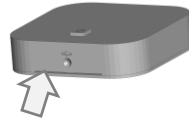
Select 'Delete'

The red light will flash again

If the network red light on the thermostat does not flash after delete, need to reset the wifi from the thermostat itself by holding the ▼▲ buttons for 10 seconds until all 3 Lights flash.
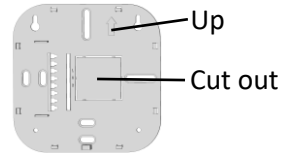

Repeat above steps to connect the thermostat to a new router

Optional wireless 24VAC relay Board installation guide

1. Remove the back panel using flat object

2. Mount back cover at upright position away from metal objects or concrete wall, at a distance shorter than 10m from thermostat. Cut cover and insert wire.
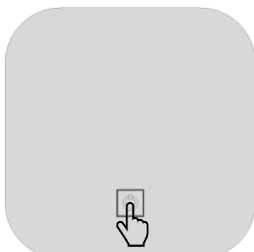
— Up

— Cut out

3. Disconnect power breaker of the AirCon
   Connect control board wires to aircon as follows:

Pin	Wire Color	Heat Pump	Reverse Valve
1	Red	R –24VAV in	RC – Cold 24VAV in
2	Black	C – Common 24VAC	C – Common 24VAC
3	Blue	Y2 – 2nd stage Cold	O/B – reverse valve
4	Yellow	Y1 – Cold	Y1 – Compressor
5	Green	G - Fan	G - Fan
6	White	W1 – Heat	W1 – Aux Heat
7	Purple	W2 – 2nd stage heat	W2 – 2nd stage heat

Note: this unit is 24VAC. DO NOT CONNECT TO MAIN POWER!!!

4. Connect 7 pin plug to relay board and close covers
5. Power up the aircon. The blue light on control board should flash
6. Setup the aircon to work with external thermostat (see aircon manual)
7. Pair thermostat and control board as follows:

Control Board   Thermostat

a) Connect Power to both units
b) Press ⏻ to Power On thermostat
c) Hold ⏻ on 'Control board' for 5 sec. till blue light is turned on steadily (next step should be within 10 sec.)
d) Hold ⏻ on 'Thermostat' for 5 sec. till light is flashing on both units
e) Test pairing by turn on and off the thermostat few times - The light on the control panel should go steady

Note: There is a **3 minutes delay** before the relays are triggered