

Refrigerant Leak Detection Sensor

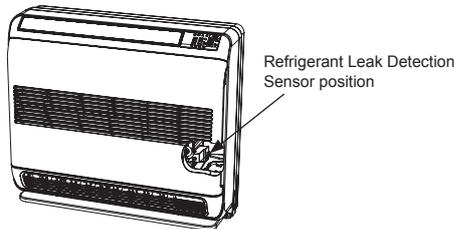
Accessory part



No.	Part Name		RB-I301-E
1	Refrigerant Leak Detection Sensor		1
2	Case Refrigerant Leak Detection Sensor		1
3	Cover Refrigerant Leak Detection Sensor		1
4	Connection Cable		1

“The refrigerant leak detection sensor must be installed, maintained, repaired and remove by a qualified installer or qualified service person.”

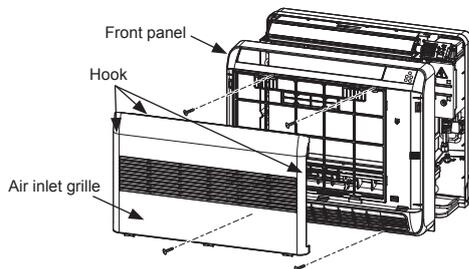
Installation position (Inside AC Unit)



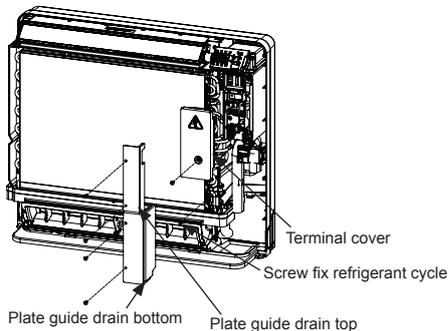
How to install Refrigerant Leak Detection Sensor.

⚠ Caution : Turn off power supply before installation.

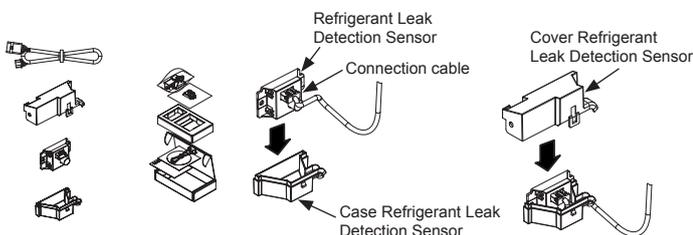
1. Remove the air inlet grille. Open the air inlet grille and remove the strap.
2. Remove the front panel (Remove 4 screws).



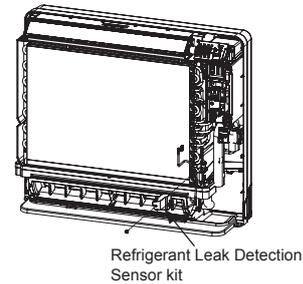
3. Remove the plate guide drain top and bottom.
4. Remove the terminal cover.
5. Remove the screw fix refrigerant cycle.



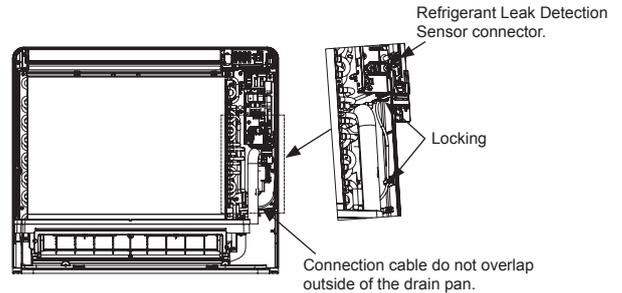
6. Open refrigerant leak detection sensor accessory.
7. Plug in the connection cable with refrigerant leak detection sensor and place into the case, then close it by the cover.



8. Insert the refrigerant leak detection sensor kit into unit and fix it by the screw.



9. Wiring the connection cable and plug into the PCB. (Following the figure)



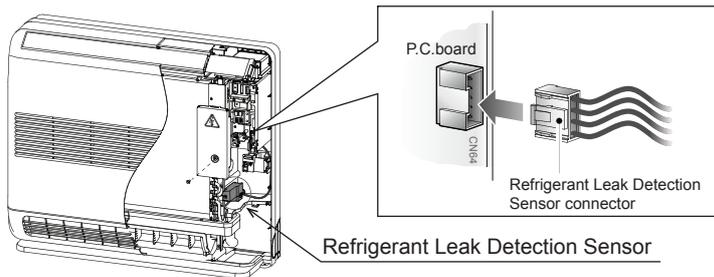
Installation note

1. Keep all paints, solvents, and silicone bonding agents away from the module to prevent malfunction.
2. Do not blow high concentration gas onto the sensor. It influences sensor characteristics and the target gas cannot be detected properly.
3. When the module is fixed on your device, the vibration caused by electric screwdriver or air screwdriver may destroy the gas sensor. Confirm if such work is proper or not in advance during prototyping for mass-production. Avoid dropping the module.
4. Do not place the module where:
 - ① Rain or water droplets exist.
 - ② Temperature is outside rated range (-25 to 60°C).
 - ③ Condensation and oil mist occurs.
 - ④ Strong inductive noise, electric field, and magnetic field exist.
 - ⑤ Exposure to direct sunlight.
 - ⑥ Corrosive gas exists.

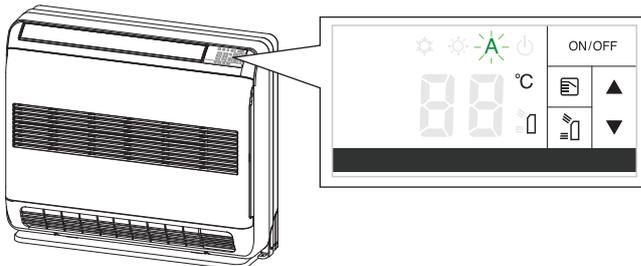
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Refrigerant Leak Detection Sensor Pairing

1. Refrigerant leak detection sensor is connected to Console FCU PCB (CN64)



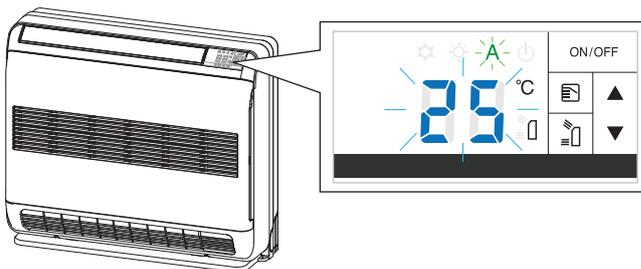
2. Power ON, Console LED display will shown "A" LED for 10 seconds.
The equipment pairing is completely.



Refrigerant Leak Detection Sensor Operation

When "refrigerant leak detection sensor" is activated.

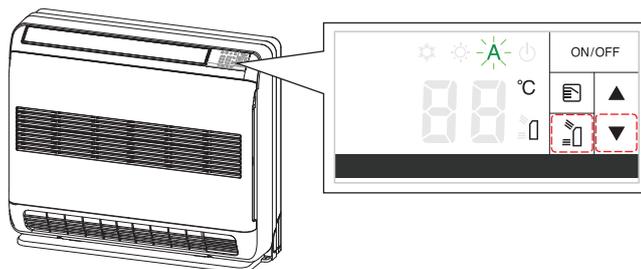
1. Force stop CDU.
2. FCU display is show "A" LED flashing and error code "25"



3. Beep sound alarm and any button is press to stop beep sound.
4. FCU fan continue operate for 250 minutes.

Refrigerant Leak Detection Sensor Cancel

Press [Air outlet ] and [Temperature down ] for 10 seconds on FCU display.
Then "A" LED flashing for 10 seconds.
The equipment cancel is completely.



Troubleshooting

Error codes on FCU display	Symptom	Countermeasure
0E	Sensor Failure	- Check sensor shortage - Check sensor disconnect
26	Life time	- Replace new sensor