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**Hisense**

# HISENSE EU LCAC

## CATALOG 2023



Hisense

# GLOBAL LCAC

Hisense LCAC is committed to providing customers with more reliable and more efficient products, and adheres to uniform high-quality standards for products to different countries and regions around the world.



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# HISENSE CLUB

## Better Training and Service

Hisense HVAC Italian Training Center, located in Milan, Italy, Europe, is an AAAAA Hisense training center all over the world, where showing and training products include RAC, FM, LCAC, VRF, ATW, DHW, etc. The training center conducts online and face-to-face training for customers all over Europe. The exhibition area of the training center will display Hisense's latest HVAC products and technologies.



## Tools

### Hi-Checker 1.0

Kit Checker naming Service Window is small and easy to carry. It can help us diagnose and resolve common problems at low cost and quickly.



### Hi-Checker 2.0

PC Checker can check the air conditioners professionally and comprehensively, and all parameters of the machine can be monitored in real time. Relevant data can be recorded, stored and reproduced.



### Hi-Checker 3.0

APP Checker Combines the advantages of Kit Checker and PC Checker. We can check and troubleshoot the operation of the machine through the APP installed on the mobile phone. This solution is easy for users to carry, record and communicate with each other.



# REFERENCE PROJECT LIST

Hisense LCAC products are sold in Italy, Spain, Portugal, Germany, France, Netherlands, Belgium, Austria, Serbia, Poland, Czech Republic, Bulgaria, Greece, Ukraine, Romania and many other countries. We have won more and more customers with LCAC reliable operation.



### Firenze, Italy.

Light Commercial duct and cassette in the restaurant and living areas, RAC in the dressing rooms.



### Rimini, Italy.

RAC installation mixed with Light Commercial duct and cassette.



### Córdoba, Spain.

130 flats developed by Kronos Homes and called "Tribeka".



### Málaga, Spain.

80 flats developed by Voltiam.



### Belgrade, Serbia.

The Plot 21a of the Belgrade Waterfront.



### Kolasin, Montenegro.

Hotel Bianca Resort & Spa.



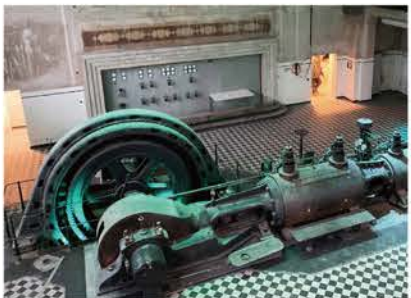
### Warsaw, Poland.

Delicatessen downtown.



### Bucharest, Romania.

In cooperation with mit clima.



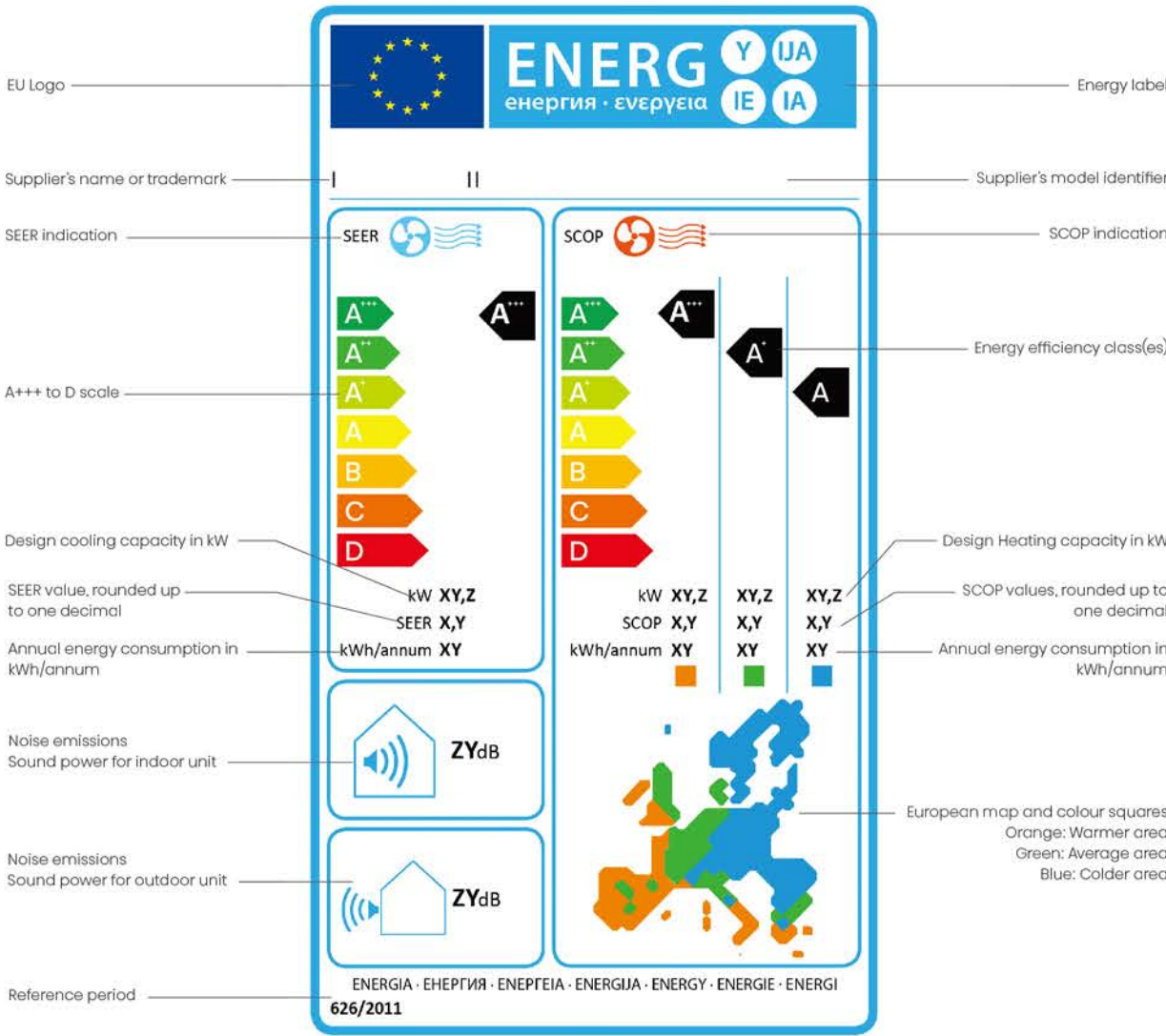
### Solingen, Germany.

Machine hall with historic steam engine.

# ENERGY LABEL

To enable consumers to compare and make purchasing decisions based on uniform labelling criteria, Europe has introduced energy labels. The previous European energy label for air conditioners, introduced in 1992, did its job for the time. In 2013, Europe introduced a seasonal energy label. This label allows end users to make even more informed choices, since seasonal efficiency reflects air conditioner efficiency over an entire season.

The energy label includes multiple classifications from A+++ to D, reflected in colour shadings ranging from dark green (most energy efficient) to red (least efficient). Information on the label not only includes the seasonal efficiency ratings for heating (SCOP) and cooling (SEER), but also annual energy consumption and noise levels.



# CONDITIONS & CONVERSION

## Cooling

**EER test:**  
Indoor temperature 27°CDB, 19°CWB  
Outdoor temperature 35°CDB.

**SEER Test:**

| Condition | Part Load Ratio | Outdoor Air Dry Bulb Temperature °C | Indoor Air Dry Bulb (Wet Bulb) Temperature °C |
|-----------|-----------------|-------------------------------------|-----------------------------------------------|
| A         | 100%            | 35                                  | 27 (19)                                       |
| B         | 74              | 30                                  | 27 (19)                                       |
| C         | 47              | 25                                  | 27 (19)                                       |
| D         | 21              | 20                                  | 27 (19)                                       |

## Heating

**COP test:**  
Indoor temperature 20°CDB Outdoor temperature 7°CDB, 6°CWB.

**SCOP Test:**

| Condition | Part Load Ratio In %          |     |    | Outdoor Heat Exchanger Inlet dry (wet) bulb temperature °C | Indoor Heat Exchanger Indoor air dry bulb temperature °C |
|-----------|-------------------------------|-----|----|------------------------------------------------------------|----------------------------------------------------------|
|           | A                             | W   | C  |                                                            |                                                          |
| A         | 88                            | NA  | 61 | -7(-8)                                                     | 20                                                       |
| B         | 54                            | 100 | 37 | 2(1)                                                       | 20                                                       |
| C         | 35                            | 64  | 24 | 7(6)                                                       | 20                                                       |
| D         | 15                            | 29  | 11 | 12(11)                                                     | 20                                                       |
| E         | (TOL - 16) / (Tdesignh - 16)  |     |    | TOL                                                        | 20                                                       |
| F         | (Tbiv - 16) / (Tdesignh - 16) |     |    | Tbiv                                                       | 20                                                       |
| G         | NA                            | NA  | 82 | -15                                                        | 20                                                       |

## Sound Level

The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value, depending on the distance and acoustic environment (for measuring conditions: please refer to the technical databooks). The sound power level is an absolute value indicating the "power" which a sound source generates. For more detailed information please consult our technical databooks.



## Conversion Data

- kW x 3412 = btu/h
- °C x 1.8 + 32 = °F
- l/s x 3.6 = m³/h
- bar x 14.51 = psi
- m² x 10.76 = ft²

## Pipe Size

- 1/4in = 6.35mm
- 3/8in = 9.52mm
- 1/2in = 12.70mm
- 5/8in = 15.88mm
- 3/4in = 19.05mm
- 7/8in = 22.22mm
- 1 1/8in = 28.58mm
- 1 3/8in = 34.93mm



# 6 REASONS FOR HISENSE LCAC

## 1 Full Outdoor Line Up

| System     | Type | Model                                                                                                                                                                                                                   | Product Name | 9K                                                                                | 12K                                                                               | 14K                                                                                | 18K                                                                                 | 21K                                                                                 | 24K                                                                                 | 36K                                                                                 | 42K                                                                                 | 48K                                                                                 | 60K                                                                                 | 75K                                                                                 | 85K                                                                                 |
|------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|            |      |                                                                                                                                                                                                                         |              | 26                                                                                | 35                                                                                | 40                                                                                 | 52                                                                                  | 60                                                                                  | 71                                                                                  | 105                                                                                 | 125                                                                                 | 140                                                                                 | 160                                                                                 | 200                                                                                 | 250                                                                                 |
| Air To Air |      | <b>Turbo Inverter R32</b><br>*High Efficiency SEER up to 7.5, SCOP up to 4.6<br>*Deep Cool<br>*Pair, twin, triple, quadruple<br>*Max piping 100m in T1 climate<br>*Service Window<br>*Average and Warmer SCOP available | AUW##8       |  |  |  |  |  |  |  |  |  |  |  |  |
|            |      | <b>Super Inverter R32</b><br>*Very compact outdoor units for easy installation<br>*Balance of efficiency and cost<br>*Max piping 50m<br>*Service Window<br>*Average and Warmer SCOP available                           | AUW##7       |  |  |  |  |  |  |  |  |  |  |  |  |

## 2 Full Indoor Line Up

Hisense can offer many kinds of indoor unit, including 600\*600 Compact Cassette, 900\*900 Round Flow Cassette, Console Standing, Ceiling Suspended, H190mm Slim Duct, 150Pa MSP Duct, 200Pa HSP Duct, 250Pa HSP Duct, Floor Standing.



600\*600  
Compact Cassette



H190mm Slim Duct



900\*900  
Round Flow Cassette



150Pa MSP Duct



Console Standing



200Pa HSP Duct



Ceiling Suspended



250Pa HSP Duct



Floor Standing

\* Hisense 1-way Cassette is on pre-developing.

## 3 Higher Efficiency

- SEER up to 7.50, A++ level for cooling
- Average SCOP up to 4.60, A++ level for heating
- Warmer SCOP up to 5.35, A+++ level for heating
- EER up to 4.41 W/W in full load
- COP up to 4.50W/W in full load

| Indoor        | Outdoor     | SEER | SCOP-a | SCOP-w |
|---------------|-------------|------|--------|--------|
| ACT-14UR4RCC8 | AUW-14U4RJ8 | A++  | A+     | A+++   |
| ACT-18UR4RCC8 | AUW-18U4RJ8 | A++  | A+     | A+++   |
| AUC-14UR4RJC8 | AUW-14U4RJ8 | A++  | A++    | A+++   |
| AUC-18UR4RJC8 | AUW-18U4RJ8 | A++  | A++    | A+++   |
| ACT-21UR4RJC8 | AUW-21U4RK8 | A++  | A++    | A+++   |
| ACT-24UR4RJC8 | AUW-24U4RK8 | A++  | A++    | A+++   |
| AUC-36UR4RKC8 | AUW-36U6RN8 | A++  | A+     | A+++   |
| AUC-42UR4RKC8 | AUW-42U6RN8 | 245% | 173%   | 209%   |
| AUC-48UR4RKC8 | AUW-48U6RN8 | 240% | 173%   | 209%   |
| ADT-14UX4RCL8 | AUW-14U4RJ8 | A++  | A++    | A+++   |
| ADT-18UX4RCL8 | AUW-18U4RJ8 | A++  | A++    | A+++   |
| AUD-75UX4RPH8 | AUW-75U6RZ8 | 237% | 153%   | 193%   |
| AUD-85UX4RPH8 | AUW-85U6RZ8 | 230% | 153%   | 193%   |
| AUV-42UR4RC8  | AUW-42U6RN8 | 237% | 169%   | 209%   |
| AUV-48UR4RC8  | AUW-48U6RN8 | 225% | 169%   | 209%   |

## 4 Top Stability

- Ensure voltage fluctuation stability down to 176V.
- Ensure reliability in ultra-low temperature and long piping by testing compressor oil viscosity.
- Ensure PCB heat transfer reliability by the PCB refrigerant cooling design. Outdoor temperature can reach up to 52℃.
- Ensure drainage reliability by standard float switch for Slim Duct, MSP Duct, HSP Duct, Compact Cassette and Cassette.
- Ensure drainage smooth by standard built-in pump for Slim Duct, MSP Duct, HSP Duct, Compact Cassette and Cassette.
- Ensure the system not exceed the design pressure by high pressure protector and low pressure protector.
- Ensure no dripping in high humidity conditions by anti-condensation smart control.
- Ensure no overflow from the drain pan by the big drain pan design, when the water from the drain pipe is returned in suddenly power off.
- Ensure the stability in extra-low heating by compressor E-heater and bottom e-heater.

## 5 Faster and Flexible Installation

- Easy Cardboard for Compact Cassette, Cassette, Ceiling Suspended, and Console units, can help install the indoor unit fast.
- The double 3-way stop valves, not matter built inside or outside, can help to vacuum fast.
- Compact design of the indoor units and outdoor units can help to carry and install easily. The compact cassette is only 15.5kg and 215mm height to be NO. 1 in class.
- The suction grille can be adjusted in any direction. And the appearance looks just the same.
- Rear suction and bottom suction of duct unit can be adjusted in the project site.

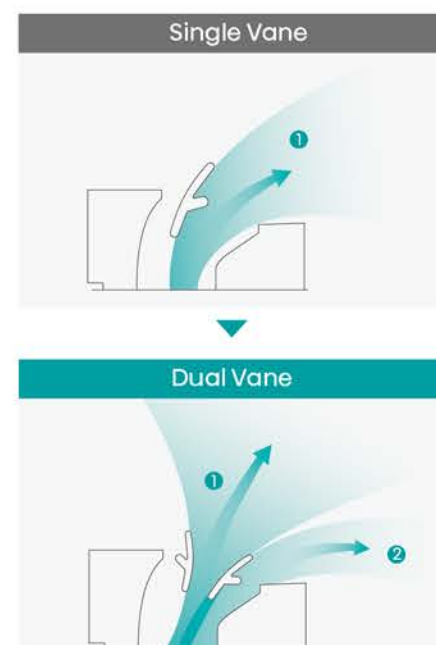
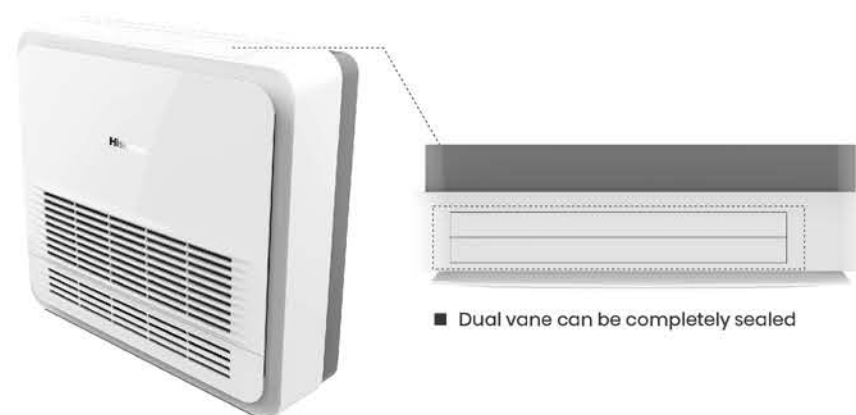
## 6 Smart and More Comfort

- 888 hidden display gives the precision of control is 0.5℃ and the precision of display is 0.1℃.
- Individual airflow can be controlled by the wired controller or the remote controller.
- The display panel will flash in the direction of individual control airflow.
- Connect Life WiFi Control.
- It has On/Off models 1 to 7 to meet different kinds of input control demand.
- Smart eye can detect the people in each of the 4 areas. When there are no people in a room, the system automatically change to energy saving mode.
- Round Flow can get better air supply and outlet temperatures

# CONSOLE

## Dual Vane Design

The unique dual vane can be completely sealed when the unit is off, and can rotate independently when the unit is on. The console unit can give a comfortable airflow distribution.



## Various Airflow

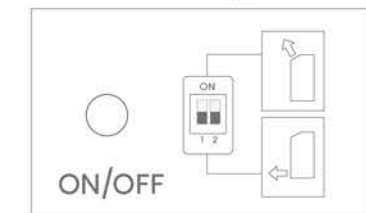
Various airflow of top air-out, bottom air-out, top & bottom air-out make the air distribution and temperature more comfortable.

| Switch Setting | Air Flow |         |
|----------------|----------|---------|
|                | Cooling  | Heating |
|                |          |         |
|                |          |         |
|                |          |         |
|                |          |         |

### Changing air flow DIP switch

Change the air flow DIP switch to ON to limit the air flow direction.

1. Remove the front grille.
2. Switch the DIP switch on right side of the panel to ON.



Note: Air conditioner automatically decides the appropriate blowing pattern.



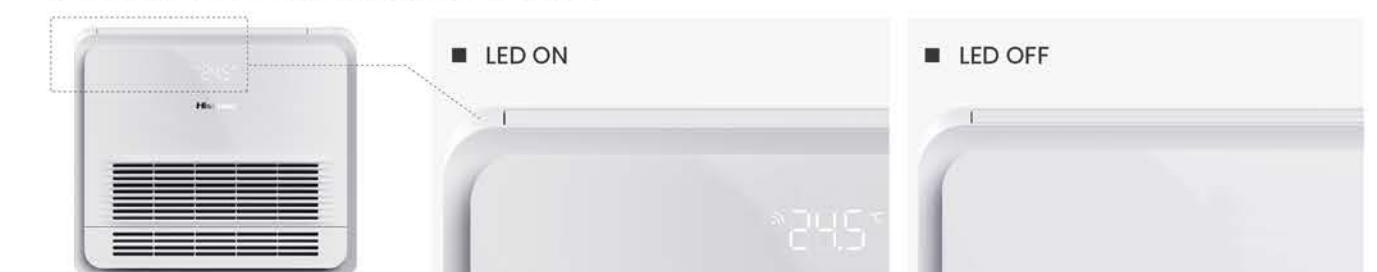
## Effective Heating

The hot airflow blowing from the bottom air-outlet can give an effective heating even with the same heating capacity, namely Foot Warming Effect.



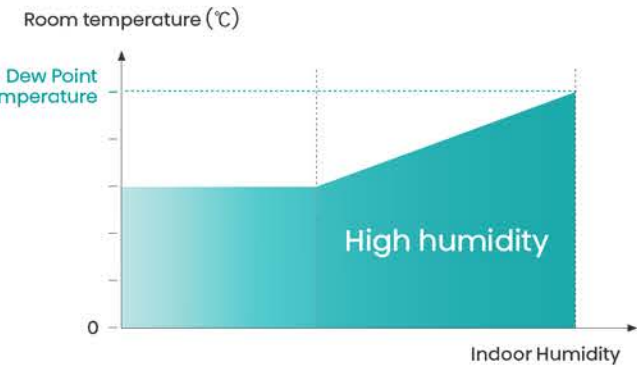
## Hidden Display

888 hidden display gives the precision of control is 0.5°C and the precision of display is 0.1°C. The humidity of room will display in drying mode.



# Humidity Control

Anti-condensation smart control automatically works in high humidity conditions to insure no dripping from the indoor unit.  
The humidity of room will display in drying mode.

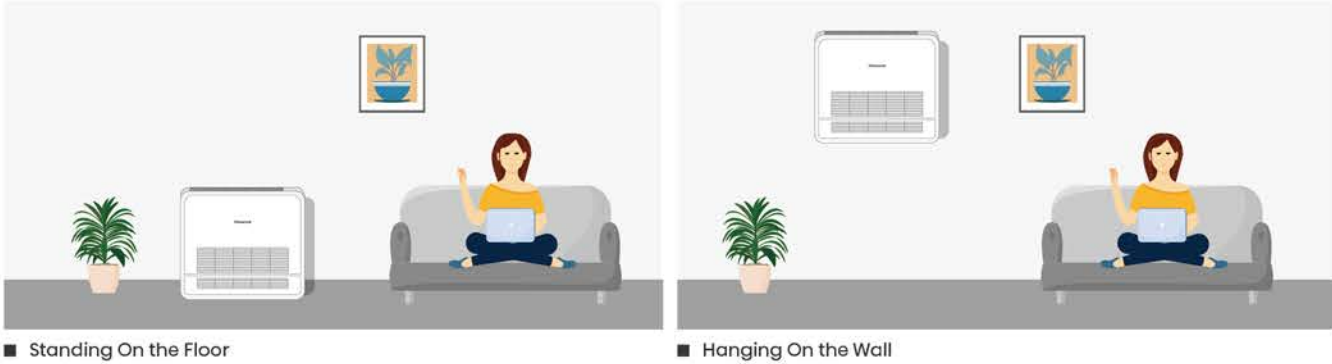


\* Automatic detection, increase the temperature of the outlet when humidity rises, avoid condensing water.



# Flexible Installation

Despite of the suitability of floor installment for console units, it is still available for wall mounting too. For a sleek look, the unit could also be installed semi-concealed or totally concealed to be used as concealed floor units.



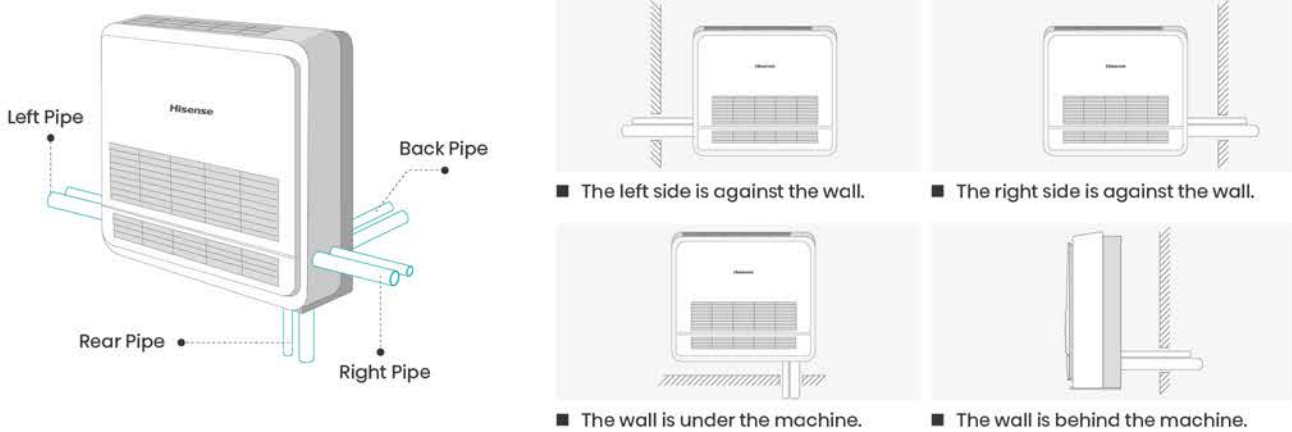
# Hidden Installation

For some special project, console unit can be hidden installed or installed in a corner.



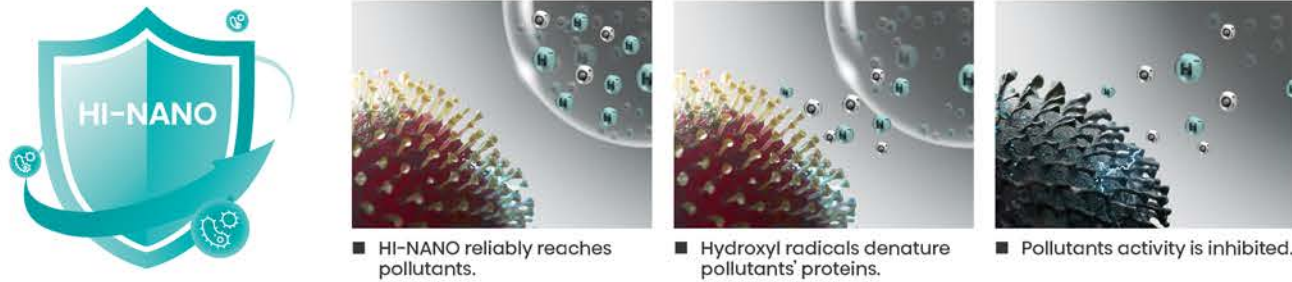
# Flexible Piping

Both refrigerant and drainage pipes are freely to connect in any direction including any sides.



# HI-NANO

HI-NANO can effectively prevent bacteria. Release a large number ion stream , kill and remove bacteria and viruses quickly through the recycle indoor air.



| HI-NANO Sterilization Type                             |                                                               |                                                                             |                                                                    |
|--------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------|
| 92.6% of H1N1                                          | 88.54% of E. coli                                             | 74.01% of Staphylococcus aureus                                             | 60.07% of PM2.5                                                    |
| HI-NANO can remove more than 92.6% of H1N1 in 2 hours. | HI-NANO can sterilize more than 88.54% of E. coli in 2 hours. | HI-NANO can sterilize more than 74.01% of Staphylococcus aureus in 2 hours. | HI-NANO can effective remove more than 60.07% of PM2.5 in 2 hours. |
|                                                        |                                                               |                                                                             |                                                                    |

\* The test result comes from the test of Hisense split air conditioner (model:AST-12UW4RMRCF) by SGS in a 30m³ test chamber.