# Residential MonoSplit Inverter
# FLEXIS PLUS

Haier

2,5 kW
3,5 kW
4,2 kW
5,0 kW
7,1 kW


Standard YR-HQ


Self Clean


Eco Sensor


Easy Installation


Silence

Wi-Fi control integrated

56° Steri-Clean

3D

UVC Sterilisation

- Self-Clean
- Eco sensor
- Easy installation
- Low noise level
- Wi-Fi control integrated
- 56°C Steri-Clean
- 3D airflow: continuous movement of horizontal and vertical deflectors
- 2-Way Pipe Design
- UVC Sterilisation


| INDOOR UNIT BLACK | Model | | AS25S2SF1FA-MB3 | AS35S2SF1FA-MB3 | AS42S2SF1FA-MB3 | AS50S2SF1FA-MB3 | AS71S2SF1FA-MB3 |
|---|---|---|---|---|---|---|---|
| INDOOR UNIT WHITE | Model | | AS25S2SF1FA-MW3 | AS35S2SF1FA-MW3 | AS42S2SF1FA-MW3 | AS50S2SF1FA-MW3 | AS71S2SF1FA-MW3 |
| OUTDOOR UNIT | Model | | 1U25S2SM1FA-2 | 1U35S2SM1FA-2 | 1U42S2SM1FA | 1U50S2SJ2FA | 1U71S2SR2FA |
| **Performance data** | | | | | | | |
| Output power - COOLING | nom (min-max) | kW | 2,60 (0,80-3,20) | 3,50 (1,00-4,00) | 4,20 (1,20-4,80) | 5,20 (1,40-6,00) | 7,00 (2,20-7,50) |
| Output power - HEATING | nom (min-max) | kW | 3,20 (0,80-4,20) | 4,20 (1,00-5,20) | 4,40 (1,30-5,80) | 6,00 (1,40-6,90) | 8,00 (2,40-8,50) |
| Absorbed power – COOLING | nom (min-max) | kW | 0,650 (0,20-1,20) | 0,870 (0,30-1,50) | 1,230 (0,40-1,70) | 1,413 (0,50-2,00) | 2,167 (0,70-2,50) |
| Absorbed power – HEATING | nom (min-max) | kW | 0,800 (0,30-1,50) | 1,102 (0,50-1,60) | 1,176 (0,52-2,20) | 1,500 (0,52-2,35) | 2,156 (0,70-2,90) |
| Energy class | EER | W/W | 4,00 | 4,00 | 3,41 | 3,68 | 3,23 |
| | COP | W/W | 4,00 | 3,81 | 3,74 | 4,00 | 3,71 |
| COOLING Pdesign | 35 °C | kW | 2,60 | 3,50 | 4,20 | 5,20 | 7,00 |
| HEATING Pdesign | (-10 °C) | kW | 2,40 | 2,80 | 3,60 | 4,60 | 5,60 |
| Energy class | SEER | | 8,50 (A+++) | 8,50 (A+++) | 7,00 (A++) | 7,20 (A++) | 7,10 (A++) |
| | SCOP | | 4,60 (A++) | 4,60 (A++) | 4,00 (A+) | 4,60 (A++) | 4,00 (A+) |
| Annual Energy Consumption - COOLING | | kWh/a | 107 | 144 | 210 | 253 | 345 |
| Annual Energy Consumption - HEATING | | kWh/a | 731 | 854 | 1260 | 1401 | 1959 |
| **Indoor Unit** | | | | | | | |
| Power supply | | Ph/V/Hz | 1/220~240/50 | 1/220~240/50 | 1/220~240/50 | 1/220~240/50 | 1/220~240/50 |
| Treated air volume | H | m3/h | 600 | 650 | 750 | 900 | 1100 |
| Dehumidification | | L/h | 1,2 | 1,6 | 1,8 | 2,0 | 2,8 |
| High sound power - COOLING | | dB | 53 | 55 | 58 | 57 | 60 |
| High sound power - HEATING | | dB | 53 | 55 | 58 | 57 | 60 |
| Sound pressure - COOLING | | dB(A) | 38/32/25/16 | 39/33/26/17 | 42/36/30/23 | 45/41/37/28 | 47/43/37/33 |
| Sound pressure -HEATING | | dB(A) | 38/32/25/19 | 39/33/26/20 | 42/36/30/23 | 45/41/37/28 | 47/43/37/33 |
| Net dimensions | WxDxH | mm | 856x197x300 | 856x197x300 | 856x197x300 | 999x225x323 | 1115x235x343 |
| Packaging dimensions | WxDxH | mm | 952x283x389 | 952x283x389 | 952x283x389 | 1100x314x420 | 1202x319x432 |
| Net/gross weight | | kg | 9,5/12,0 | 9,5/12,0 | 9,5/12,0 | 12,0/15,0 | 15,2/18,2 |
| **Outdoor Unit** | | | | | | | |
| Power supply | | Ph/V/Hz | 1/220~240/50 | 1/220~240/50 | 1/220~240/50 | 1/220~240/50 | 1/220~240/50 |
| Power cable | | N x mm2 | 3 x 1,5 | 3 x 1,5 | 3 x 1,5 | 3 x 2,5 | 3 x 2,5 |
| Interconnection cable | | N x mm2 | 4 x 1,0 | 4 x 1,0 | 4 x 1,0 | 4 x 1,0 | 4 x 1,0 |
| Sound power | H | dB | 59 | 61 | 63 | 63 | 70 |
| Sound pressure | H | dB(A) | 47 | 48 | 50 | 51 | 57 |
| Running current cooling/heating | Max | A | 6,8/6,8 | 7,2/7,2 | 9,8/9,8 | 10,9/10,9 | 13,0/13,0 |
| Starting current cooling/heating | Max | A | 1,5/1,5 | 1,5/1,5 | 2,0/2,0 | 2,0/2,0 | 2,0/2,0 |
| Net dimensions | WxDxH | mm | 800x275x553 | 800x275x553 | 800x275x553 | 820x338x614 | 890x353x697 |
| Packaging dimensions | WxDxH | mm | 908x405x625 | 908x405x625 | 908x405x625 | 993x413x685 | 1046x460x780 |
| Net/gross weight | | kg | 27,6/30,4 | 30,0/32,9 | 31,5/34,0 | 37,8/41,5 | 45,0/50,0 |
| Compressor type | | | Rotary inverter | Rotary inverter | Rotary inverter | Twin rotary inverter | Twin rotary inverter |
| **Installation data** | | | | | | | |
| Refrigerant | | | R32 | R32 | R32 | R32 | R32 |
| Liquid pipe | Ø | mm (inch) | 6,35 (1/4) | 6,35 (1/4) | 6,35 (1/4) | 6,35 (1/4) | 9,52 (3/8) |
| Gas pipe | Ø | mm (inch) | 9,52 (3/8) | 9,52 (3/8) | 9,52 (3/8) | 12,70 (1/2) | 15,88 (5/8) |
| Standard pipe length without refrigerant charge | | m | 7 | 7 | 7 | 7 | 7 |
| Maximum pipe length | | m | 20 | 20 | 20 | 25 | 50 |
| Maximum IU - OU elevation | | m | 10 | 10 | 10 | 15 | 30 |
| Refrigerant charge in the factory | | kg | 0,63 | 0,78 | 0,94 | 0,95 | 1,30 |
| Refrigerant charge in the factory | | TCO2eq | 0,43 | 0,53 | 0,63 | 0,64 | 0,88 |
| Additional ref. charge over std length | | g/m | 20 | 20 | 20 | 20 | 45 |
| Operating limits - COOLING (in/out) | min-max | °C | 21~35°C/-20~43°C | | | | |
| Operating limits - HEATING (in/out) | min-max | °C | 10~27°C/-20~24°C | | | | |

# WI-FI CONTROL

Haier's new Wi-Fi "hOn" app, enables you to take control of all the Haier group appliances in your Smart Home from a single app on your smartphone or tablet.

The hOn app allows you to manage all the basic functions and much more.  The app can also respond to voice commands because it is compatible with Google Assistant and Alexa.

## TECHNOLOGY

### Integrated Wi-Fi module

The Wi-Fi module is already built into the air conditioner. In order to control the units via smartphone or tablet it is necessary to download the hOn spp from the App Store, Google Play and Huawei AppGallery. You can also use the QR Code here to locate the app.

GET IT ON Google Play
Available on the App Store
EXPLORE IT ON AppGallery

## BENEFIT

### Customised Service

Here are some of the functions you can enjoy with "hOn" app.

**Group Control**
Control multiple units on one single smart phone device.

**Smart Reminder**
Sends regular notifications to user to clean the filter mesh.

**Weekly Timer**
Sets temperature and fan speed for the week ahead.

**Error Alert**
Error code is shown on the app when it malfunctions.

**Convenient Control**
Controls air conditioner from anywhere and anytime via network.

**Custom Program**
One button for user DIY program.

**Voice In APP**
Built-in voice control for easy for the interaction.

**Holiday Mode**
Set holiday mode with one simple touch.

**Energy Consumption**
Know your electricity consumption in real time.

# VOICE-CONTROL

Total comfort is also when words are worth more than actions. With Haier's voice control function, you can manage the main functions of one or more air conditioners, simply through verbal communication.

To use this function, you must ensure that the Haier air conditioning units are connected to the Wi-Fi network and configured with a Smart Home. (Smart Home device not supplied by Haier for compatible devices, please contact head office).

## TECHNOLOGY


**hOn App**

The new hOn App is a single digital environment to control, manage and enjoy, getting the most out of all Haier group products.

With the hOn App, it is possible to control all your Haier Group smart appliances, using voice control via the most popular voice assistants. It was created, using the latest technologies for smart appliances, to make it simpler and easier to use.

## BENEFIT

### Customised Service

Here are some of the functions you can enjoy with "hOn" app.

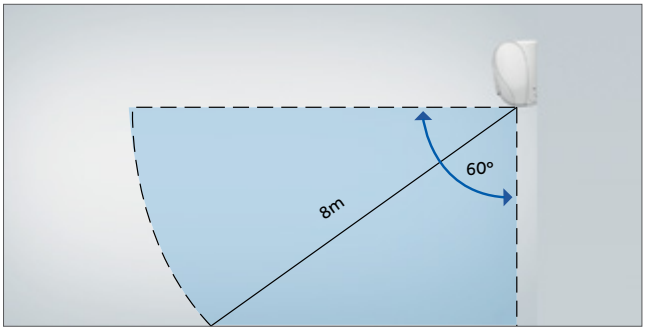
- Turn on/off the air conditioner.
- Is the air conditioner on/off?
- Set the air conditioner to 20 degree.
- What is the temperature set on air conditioner?
- Set the air conditioner to heat/cool/smart mode.
- What mode is the air conditioner set?
- Set the air conditioner to low/medium/high/auto speed.
- What is the air conditioner speed?

# ECO SENSOR

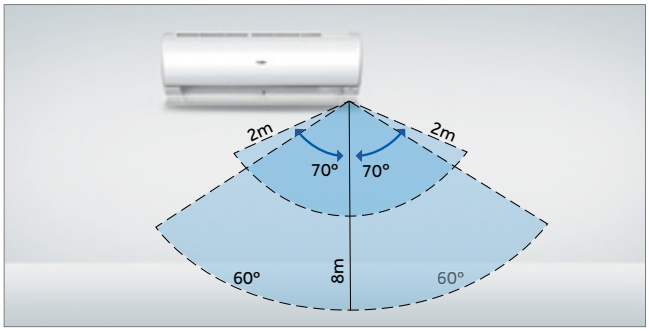
## TECHNOLOGY

The smart sensor detects the condition of air and people's movement in real time, automatically adjusting the operating mode of the air conditioner to improve energy efficiency and optimise the users experience.

With two built-in modules, the Eco sensor uses a double area detection with a maximum angle of 120 degrees and a distance of 8m. The sensor automatically detects the presence of people inside a room and adjusts the air flow by activating the "Follow" or "Avoid" mode according to your specific needs.




Vertical Detection Area



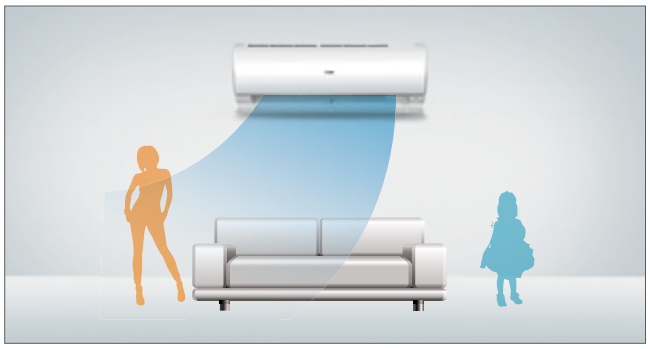

Horizontal Detection Area

A larger area of detection and the identification of people's exact location ensure the best possible user experience. The brightness sensor detects any change in light intensity. When night falls or the light goes out, the air conditioner enters "sleep" mode.

## BENEFIT

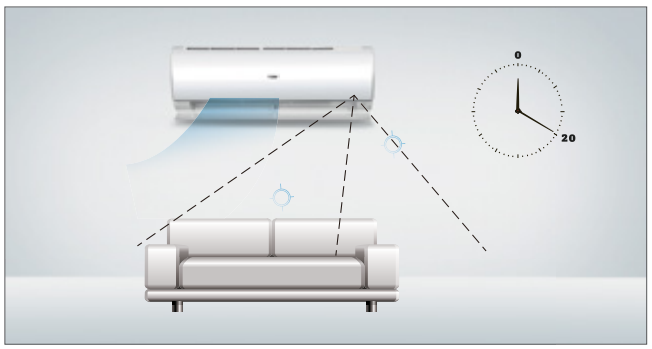
### Increased Comfort

If a high body temperature is detected, the fresh air flow is directed towards the person. If a low body temperature is detected, the air flow is diverted.

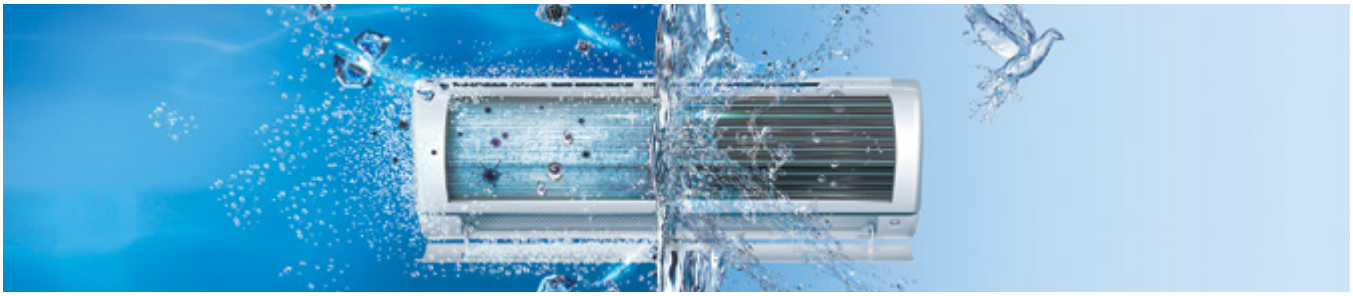


### Energy Saving

The Echo sensor automatically detects the location and movements of people in the room. If the room is empty, the air conditioner activates the power saving mode within 20 minutes.



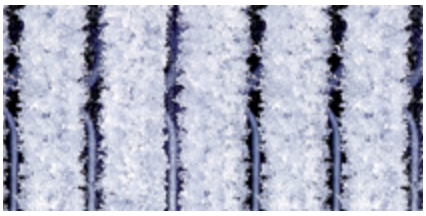
# SELF-CLEAN FUNCTION



During operation, dirt accumulates on the evaporator. If the evaporator is not cleaned regularly, accumulated dirt reduces the thermal exchange by 15-30% and also promotes the proliferation of bacteria and mould.

## TECHNOLOGY

### Cold expansion technology

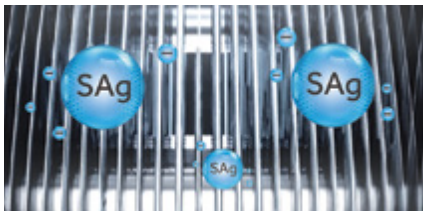


The layer of frost that forms on the evaporator/condenser generates a strong force of cold expansion that easily removes dirt from the surface.

### Express washing technology


Low-angle hydrophilic aluminium foil speeds up water drainage by 20%.

### Antibacterial technology




The coating contains silver nanoparticles capable of effectively killing 99% of the bacteria by inhibiting their proliferation.

The new Self Clean technology is the first of its kind to integrate the self-cleaning function of both the evaporator and the condenser. It starts with cleaning the evaporator, then switches to cleaning the condenser without stopping the compressor.

## BENEFIT

### Cleaner air

This innovative technology allows you to kill bacteria and keep the evaporator clean.


### Increased energy efficiency

Our air conditioner always works at maximum cooling capacity with very high energy efficiency.

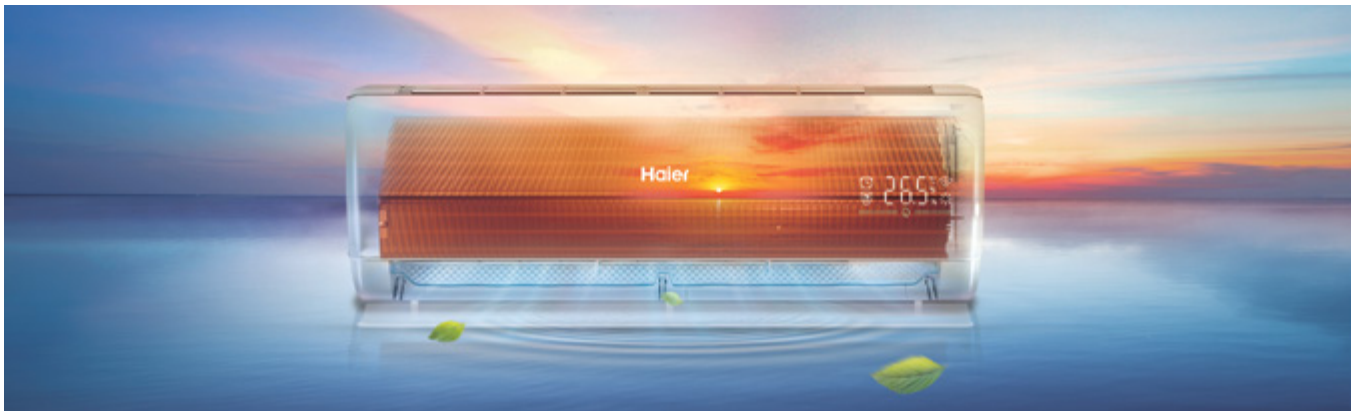

### Savings on cleaning costs

The automated cleaning process eliminates the frequency of manual cleaning by a service engineer.

### TUV Certification

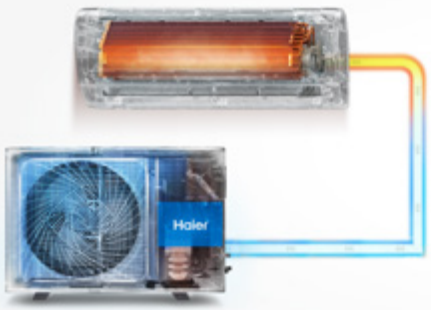

Verification on Cooling Expansion
Rate & Defrosting Residual Rate of
Air Conditioner with Self-cleaning Technology

# 56°C STERI-CLEAN




Kills bacteria and viruses by heating the evaporator to 56°C high temperature for 30+ minutes.

## TECHNOLOGY



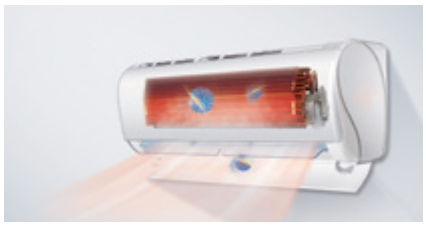

### High Temperature Sterilisation

Almost no bacteria and virus can survive at 56°C for 30+ minutes based on latest research. Once the heating process is done, the evaporator is cooled down instantly to achieve better Sterilisation performance.

### Smart Frequency Control

It intelligently adjusts the compressor frequency to control the coil temperature and then maintains the evaporator at 56°C high temperature.

## BENEFIT



### Delivering Healthier Air

56°C high temperature sterilisation dries the components inside, and kills bacteria and virus, ensuring healthy air coming out of air conditioner.

### Eliminates Bacteria

As a result of this process the viruses and bacteria are eliminated from both the exchanger and other surrounding components of the machine. The result is also tested by the SGS laboratories which have shown its effectiveness.

### Easy-to-Operate

The function is available via hOn APP and you can turn it on with just a simple tap.

### SGS Certification*

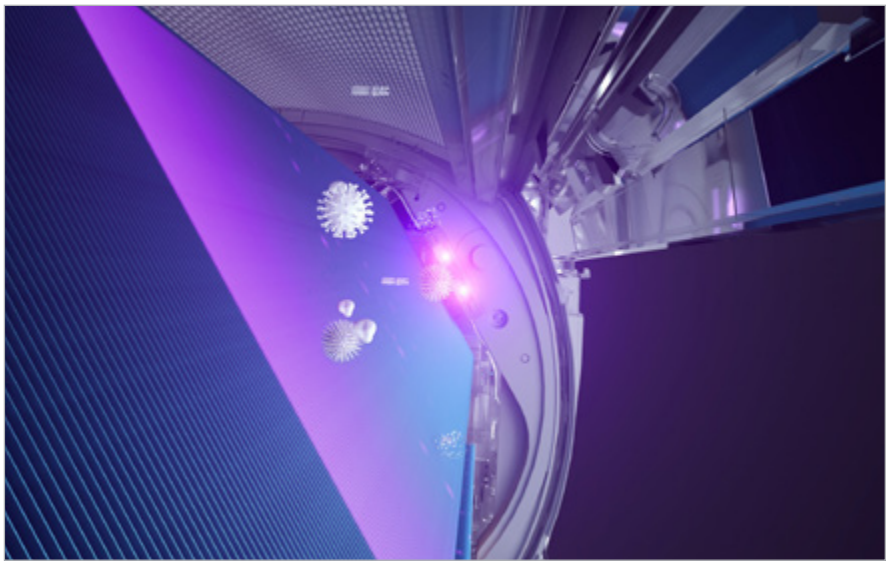

SGS

VERIFICATION OF
56 °C STERILIZATION WITH A DURATION 30 MINUTES

# UVC STERILISATION

The built-in LED UV light kills airborne hazards when the air circulates from air inlet, and delivers healthy air to your room. Haier integrates UVC technology to the Commercial range, allowing duct systems to sterilize the air we breathe in offices, hotels and other commercial buildings.

## TECHNOLOGY



### UVC Wavelength

UVC is the shorter, and more energetic wavelength ranging from 200-280nm of the sunlight spectrum. It is particularly efficient in destroying genetic material.

### Built-in UV Lights

The UV lights emit rays near the air inlet where room air circulates into the AC. The airborne hazards are instantly killed when passes through the area.

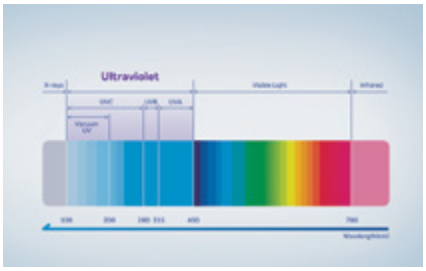
### Safety Lock

When the front panel is open, the air conditioner will automatically turn off the UVC lights. It avoids potential risks of direct exposure.

## BENEFIT

### Safe, Reliable Operation

It eliminates airborne hazards, with no harmful chemicals, no residuals, and no burden to the environment.




### Efficient Sterilisation

Haier UVC sterilisation utilises the wave-length between 265-275 nm, which is stronger in destroying the invisible pollutants in the air.

### TUV Certification*

Verification on Cooling Expansion
Rate & Defrosting Residual Rate of
Air Conditioner with Self-cleaning Technology

# UVC STERILISATION

Haier's UVC generator has received a Certificate of Inactivation on the Novel Coronavirus, from leading Texcell S,A, an independent viral testing laboratory in France.

The global research organisation, concluded that the Haier UVC generator inhibits **99.998%** of Novel Coronavirus (SARS-CoV-2) within their sealed test facilities.

The test was conducted in a 45L enclosed box in laboratory conditions, where the Haier UVC GENERATOR effectively inhibited SARS-CoV-2, with an efficiency up to **99.998% in 1 hour.**

### TEXCELL Certification*

Texcell

CERTIFICATE OF INVESTIGATION STUDY

STUDY OF VALIDATION OF THE EFFICIENCY OF HAIER UVC GENERATOR ON SARS-COV-2 BY NO GLP VIRAL CLEARANCE STUDY (FIO)

Sponsor: Qingdao Haier Air Conditioner General Co ., LTD

Test Facility: TEXCELL

In Haier conditions of use:

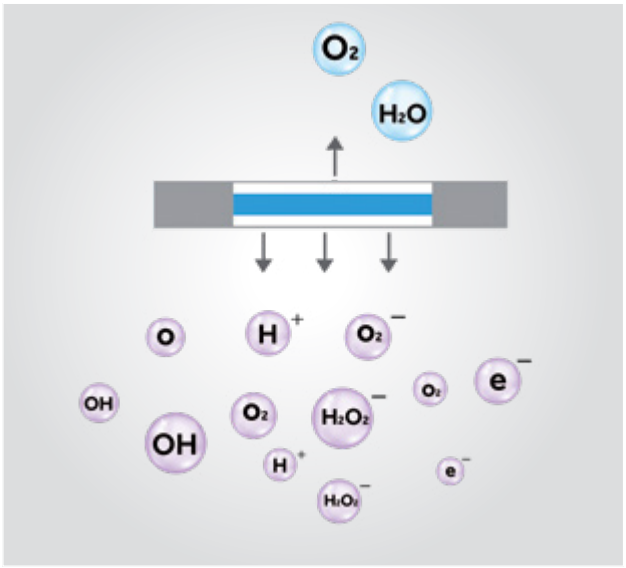
An inactivation and reduction titer of more 4.79 Log (99.998%) of Sars-Cov-2 in 1 hour was demonstrated in a 45L Box.

Version: Final

## UVC PRO

UVC Pro is a technology that works in the UV ray spectre and, in particular, in two wavelengths:

- **UVC rays** inhibit bacteria and virus present in the airflow that goes through the rays generated by the lamp.
- **Vacuum UV** rays generate hydroxyl radicals that release into the environment improving the efficiency of airborne virus and bacteria inhibition.




## BENEFIT

### Powerful air purification

Doubles the efficiency in air purification with UVC rays and the hydroxyl radicals generated through photolysis. Furthermore, no substance is released into the air making it environmentally conscious.

### Easy to activate and manage

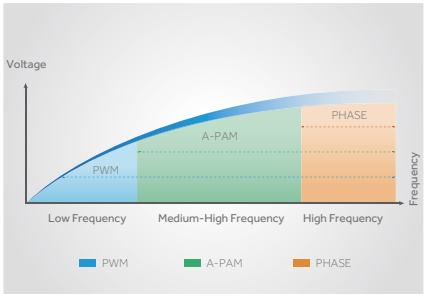
This function is available through the hOn APP and can be activated with a simple touch.

The UV Vacuum ray absorption induces the osmose and the following ionization of the water molecules. Several studies show that the irradiation of the water molecule with a lamp that has a wavelength of 185nm causes a quick elimination of the microscopic organisms, caused by the decomposition of the organic molecules present in the environment.

# INVERTER PLUS

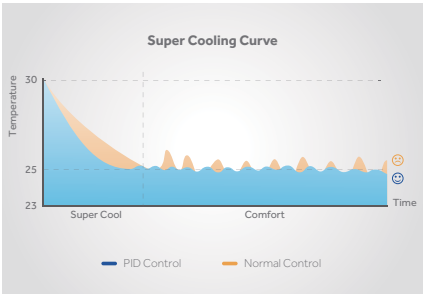

Compared to conventional inverter technology, Haier Inverter Plus integrates the TLFM, PID and A-PAM inverter controls to achieve intelligent control of the air conditioner, and at the same time provide maximum comfort, reliability and highly efficient performance.

## TECHNOLOGY



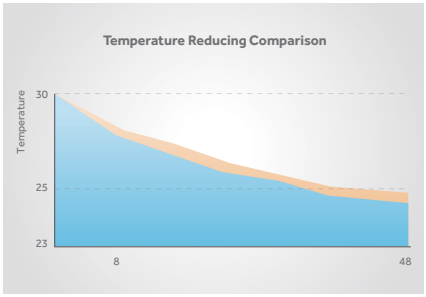

### TLFM Inverter Control

TLFM (Triple Link Frequency Modulation) technology uses 3 different voltage controls to optimally manage operational efficiency at each frequency stage.




### PID Inverter Control

The PID (Proportion Integration Differentiation) regulation technology optimises the operating frequency before reaching the desired temperature and then constantly makes real-time adjustments to keep the air temperature at the desired temperature.



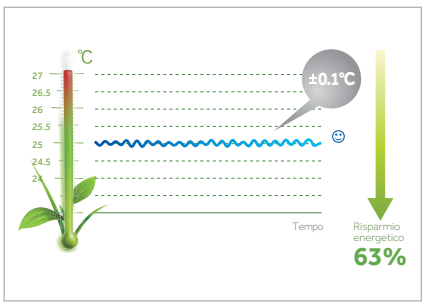

### A-PAM Inverter Control

The A-PAM (Adoption-Pulse Amplitude Modulation) inverter control technology automatically adjusts the voltage of the DC bus based on the compressor load, increasing the range of operating voltage.

## BENEFIT

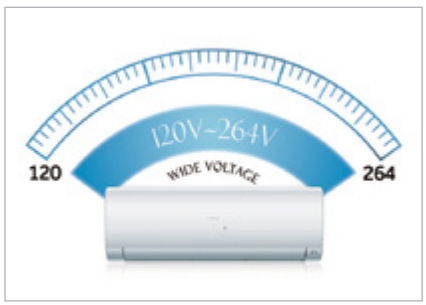
### Energy saving Performance

Inverter Plus reaches high operational efficiency at all frequency stages.
The cooling/heating performance is much faster and more powerful.




### Fresh & comfortable airflow

When the air conditioner is on, Inverter Plus reaches the desired temperature much faster than a traditional system, Keeping it at a difference of ±0,1 °C thanks to a precise temperature control.




### Reliability

Inverter Plus adjusts the CC voltage by achieving stable operation between 120V-264V and ideal voltage control. The fresh air is able to reach even the most distant points of the room despite the current changes.