

# 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 app from the App Store, Google Play and Huawei AppGallery. You can also use the QR Code here to locate the app.



## 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?

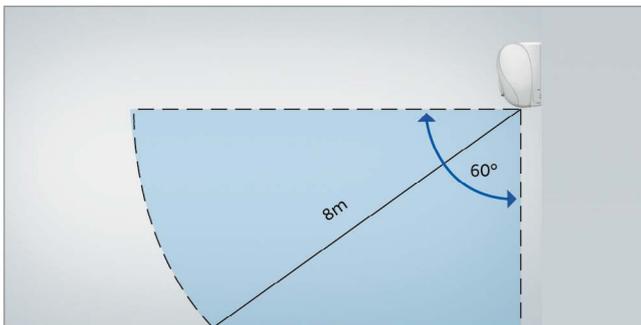
# ECO SENSOR



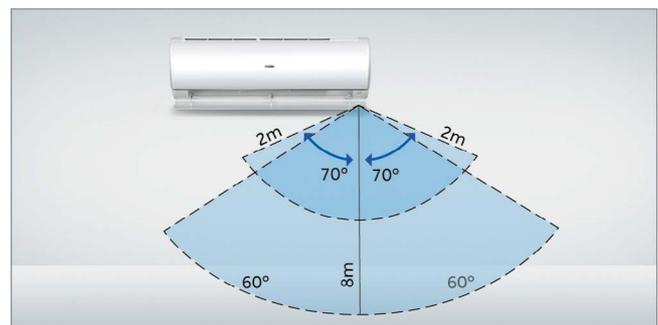
## TECHNOLOGY

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

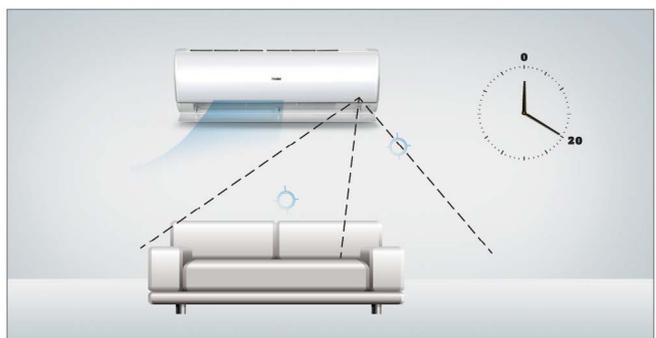
### Increased Comfort

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.



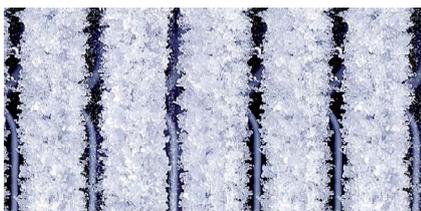
# SELF-CLEAN FUNCTION



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



# SUPER-IFD STERILISATION



Absorbs and kills virus and bacteria in your environment with an efficiency of up to 99%.

## TECHNOLOGY



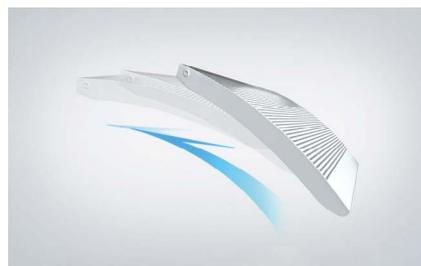
### Super filter IFD

This innovative filter consists of 6818 ventilation holes, spread over a total area of 8180 cm<sup>2</sup>. When air purification is activated, the generated static electricity absorbs pollutants in the environment.



### Smart air quality sensor

A high-definition precision sensor installed on the suction grid detects the presence of dust and allergens in the air and displays the information on the screen in real time. When the air quality is good, the green light is turned on. When it is poor, the red alarm light is turned on.



### Smart purification

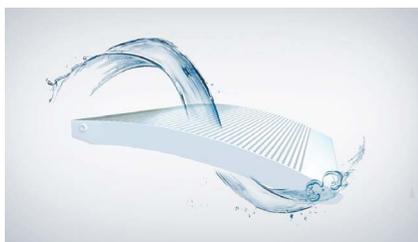
The IFD filter is located at the front of the evaporator. When the air quality detected in the room is poor and purification mode is activated, the IFD filter flows upwards to completely cover the air input.

## BENEFIT



### Deliver Healthy Air

Super-IFD Sterilisation can efficiently kill airborne bacteria & mold and effectively filter out anaphylactogen such as pollen, dust (PM2.5 & PM0.3).  
Sterilisation Rate: > 99%



### Easy-to-Clean

The IFD filter is in detachable design. When the filter is dirty after long-time usage. It can be washed and reused.

## SGS Certification\*



# 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.



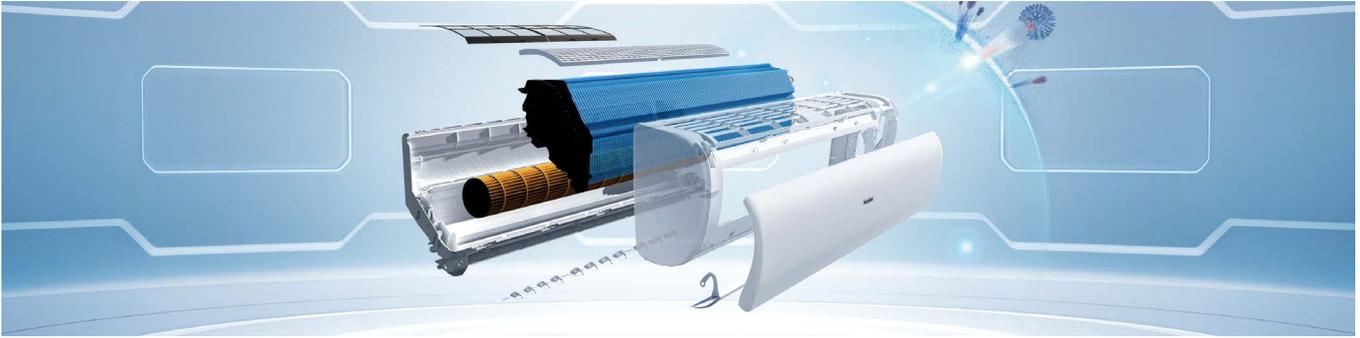
### Easy-to-Operate

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

## SGS Certification\*

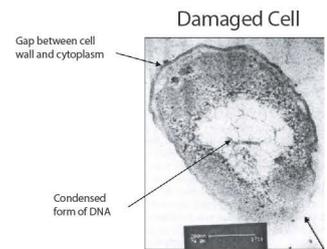
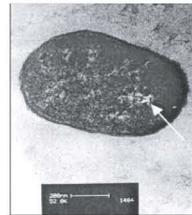
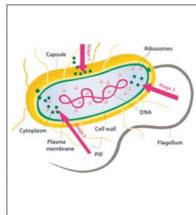
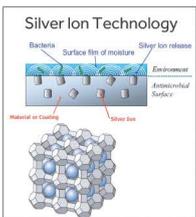


# SELF-HYGIENE



Mould and bacteria are diffused in the air. Although not all microbes compromise air quality and cause disease, some harm our health if we don't manage them well. Haier air conditioning with the Self-Hygiene incorporate silver nanoparticles into the heat exchanger surface to inhibit bacterial growth.

## TECHNOLOGY



Damaged cell wall

## Silver nanoparticles

Molds and bacteria are widespread in the room air. They compromise air quality and cause diseases. When the air conditioner is turned on, the fan blows, and the dirt is attached to the components of the indoor unit. These elements lead to the growth of mold and bacteria. Silver nanoparticles continuously release a low level of silver ions to provide protection against molds and bacteria.

## BENEFIT



### Healthier air

Mould and bacteria are no longer able to grow and proliferate in the components through which air passes, and the silver ions do not cause any damage to the human body. Therefore, the air coming out of the air conditioner is always healthy.



### Savings on cleaning costs

It is necessary to regularly clean and sterilise the equipment to keep the internal surface clean. This saves you money on the cost of a cleaning service technician.

## SGS Certification



# EASY-TO-CLEAN



The indoor unit is designed to allow quick and thorough cleaning of the air conditioner's internal components and simplify disassembly of the main components such as the electronic board, motor and fan. Deep cleaning ensures that bacteria, dust and removal of bacteria, dust and mould that are deposited inside the unit over time and during use.

## TECHNOLOGY



### Disassembling the indoor unit is quick and easy.

#### 10 steps for removing the fan unit.

1. Open the filter cover panel
2. Lift up the two locking hooks
3. Unscrew the safety screw
4. Open the baffle slightly and remove the lower panel.

#### lower panel

5. Disconnect the 3 connectors at the bottom
6. Disconnect the condensation drain pipe
7. Unhook the 2 clips at the bottom of the body.
8. Remove the fan unit, paying attention to the 2 hooks in the front
9. Push the fan assembly downwards
10. Clean or carry out the maintenance operation

## BENEFIT



### Keep AC Clean

Regular cleaning of the core components including fan and air duct is crucial to maintaining the AC clean.



### Saving Cleaning Cost

The innovative design improves the disassembly of the AC dramatically. It saves a lot of time and money if you do it on your own.

## SGS Certification\*



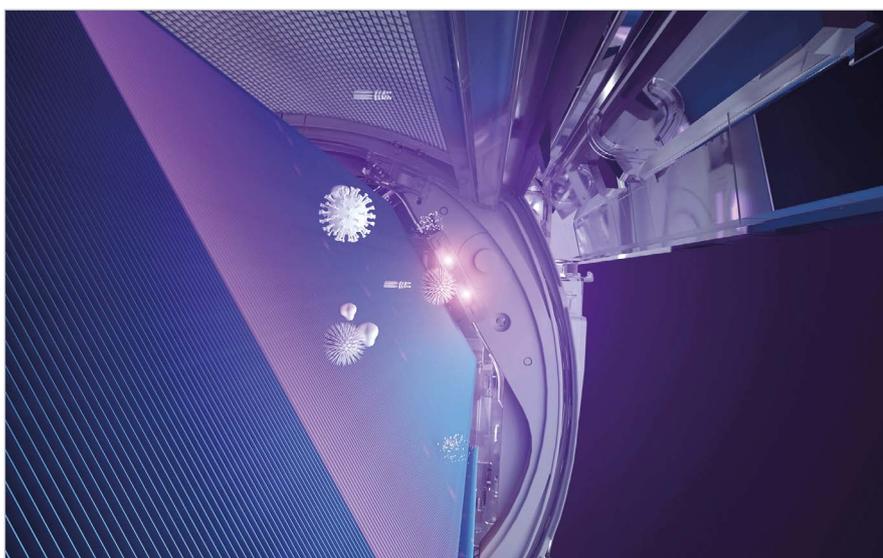
\*The Verification of 5-star Easy-to-Clean Compliance is tested on Q/HKT J09230-2021 standard by SGS. The test report shows that the star rating of Haier Expert series air conditioner (refer to the test report for detailed model numbers) on the PCB disassembly, motor disassembly, and fan disassembly is 5 star, which is the highest the rating scale.

# 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

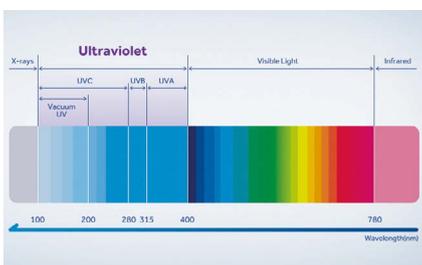
When the front panel is open, the air conditioner will automatically turn off the UVC lights. It avoids potential risks of direct exposure.

## 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\*



# UVC STERILISATION

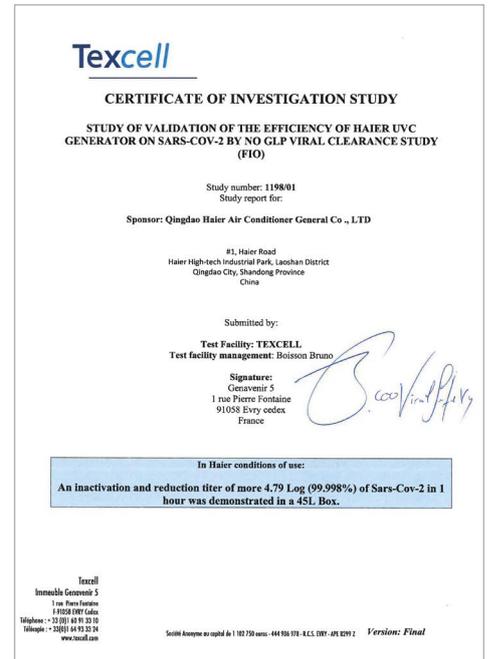
Haier's UVC generator has received a Certificate of Inactivation on the Novel Coronavirus, from leading Texcell S.A, an independent viral testing laboratory in France.

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**.



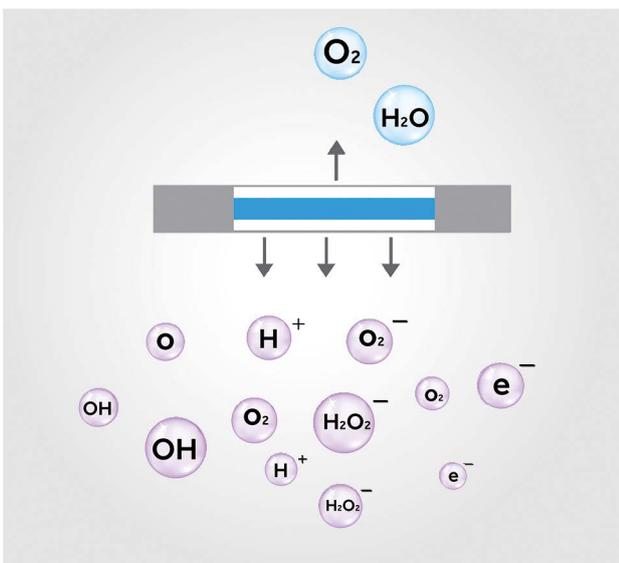
## TEXCELL Certification\*



## 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.



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.

## 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

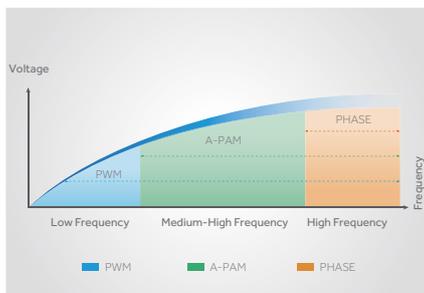
This function is available through the hOn APP and can be activated with a simple touch.

# INVERTER PLUS



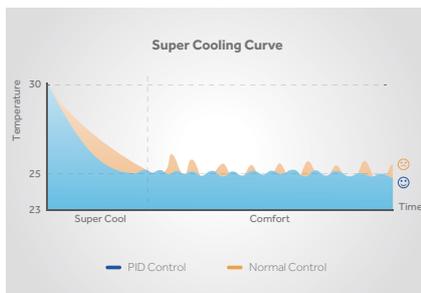
Compared to conventional inverter technology, Haier Inverter Plus integrates the TLFM, PID and A-PAM inverter controls to achieve intelligent control of the air conditioner, and at the same time provide maximum comfort, reliability and highly efficient performance.

## TECHNOLOGY



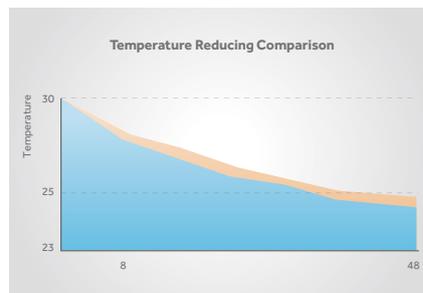
### TLFM Inverter Control

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

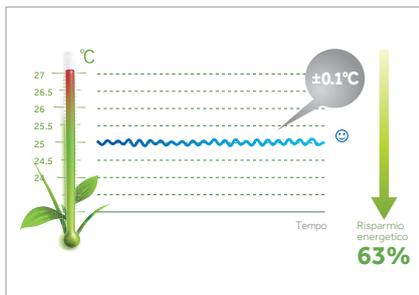
The A-PAM (Adoption-Pulse Amplitude Modulation) inverter control technology automatically adjusts the voltage of the DC bus based on the compressor load, increasing the range of operating voltage.

## BENEFIT



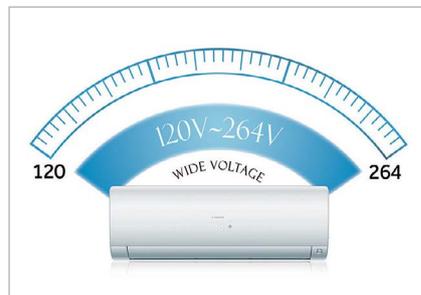
### Energy saving Performance

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  $\pm 0,1$  °C thanks to a precise temperature control.



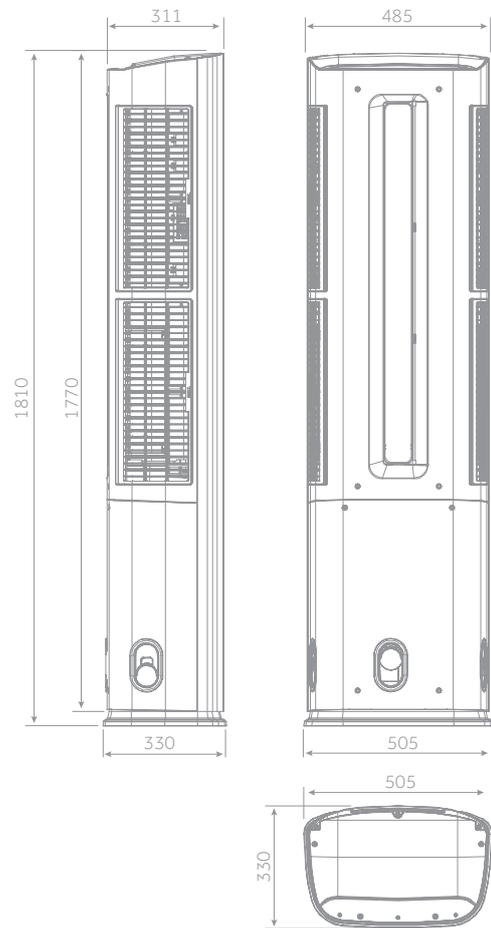
### Reliability

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.

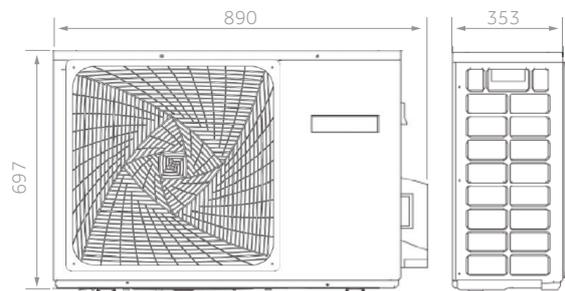
NEW ALL COMFORT TOWER



AP71



1U71



7,1 kW

# ALL COMFORT TOWER NEW

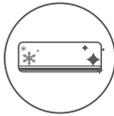
7,1 kW



Standard YR-HQ



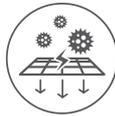
Silence



Self Clean



BNT Technology



IFD Sterilisation

- Low noise level
- CleanCool ensures the cleaning of the evaporator
- BNT technology for a balanced temperature
- IFD Purification

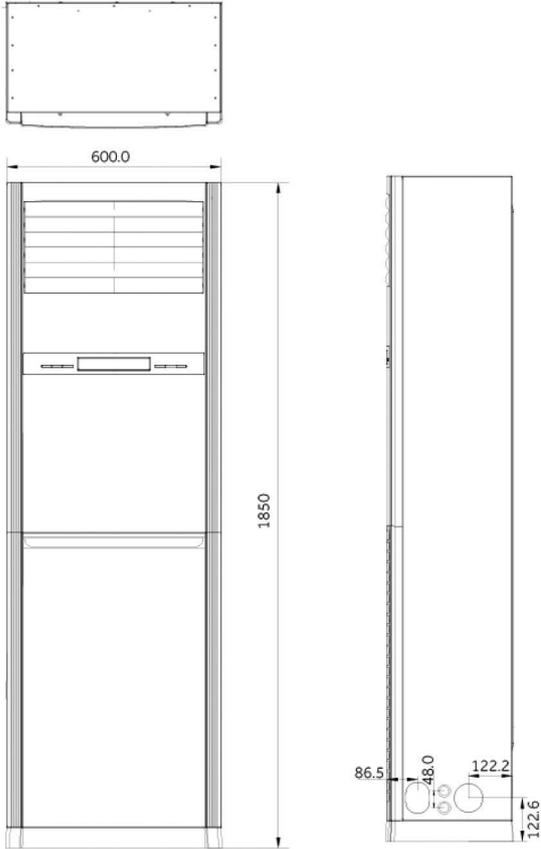


INDOOR UNIT	Model		AP71UFAHRA-1
OUTDOOR UNIT	Model		1U71REAFRA
<b>Performance data</b>			
Output power - COOLING	nom (min-max)	kW	7,20 (0,90-8,90)
Output power - HEATING	nom (min-max)	kW	8,00 (0,90-10,50)
Absorbed power - COOLING	nom (min-max)	kW	2,229 (0,12-2,80)
Absorbed power - HEATING	nom (min-max)	kW	2,156 (0,190-2,80)
Energy class	EER	W/W	3,23
	COP	W/W	3,71
COOLING Pdesign	35 °C	kW	7,20
HEATING Pdesign	(-10 °C)	kW	5,50
Energy class	SEER		7 (A++)
	SCOP		4 (A+)
Annual Energy Consumption - COOLING		kWh/a	360
Annual Energy Consumption - HEATING		kWh/a	1925
<b>Indoor Unit</b>			
Power supply		Ph/V/Hz	1/220-240/50
Treated air volume	H	m <sup>3</sup> /h	1200
Dehumidification		L/h	4,3
High sound power - COOLING		dB	62
High sound power - HEATING		dB	63
Sound pressure - COOLING		dB(A)	45/42/34/26
Sound pressure - HEATING		dB(A)	45/42/34/26
Net dimensions	WxDxH	mm	505x330x1810
Packaging dimensions	WxDxH	mm	640x455x1990
Net/gross weight		kg	47,0/59,0
<b>Outdoor Unit</b>			
Power supply		Ph/V/Hz	1/220-240/50
Power cable		N x mm <sup>2</sup>	3 x 4,0
Interconnection cable		N x mm <sup>2</sup>	4 x 2,5
Sound power	H	dB	69
Sound pressure	H	dB(A)	56
Running current cooling/heating	Max	A	14,5/14,5
Starting current cooling/heating	Max	A	2,0/2,0
Net dimensions	WxDxH	mm	890x353x697
Packaging dimensions	WxDxH	mm	1046x460x780
Net/gross weight		kg	47,0/52,0
Compressor type			Rotary inverter
<b>Installation data</b>			
Refrigerant			R32
Liquid pipe	∅	mm (inch)	6,35 (1/4)
Gas pipe	∅	mm (inch)	12,70 (1/2)
Standard pipe length without refrigerant charge		m	7
Maximum pipe length		m	20
Maximum IU - OU elevation		m	10
Refrigerant charge in the factory		kg	1,6
Refrigerant charge in the factory		TCO <sub>2</sub> eq	1,08
Additional ref. charge over std length		g/m	20
Operating limits - COOLING (in/out)	min-max	°C	21-35°C/-10-43°C
Operating limits - HEATING (in/out)	min-max	°C	10-27°C/-15-24°C

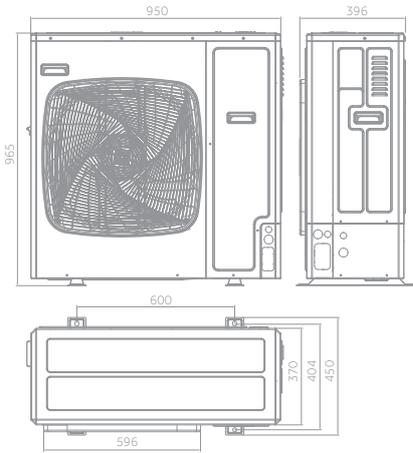
The data in this catalogue is purely indicative as the data may vary. Please be advised to check the accuracy of the data with the supplier before purchasing products.



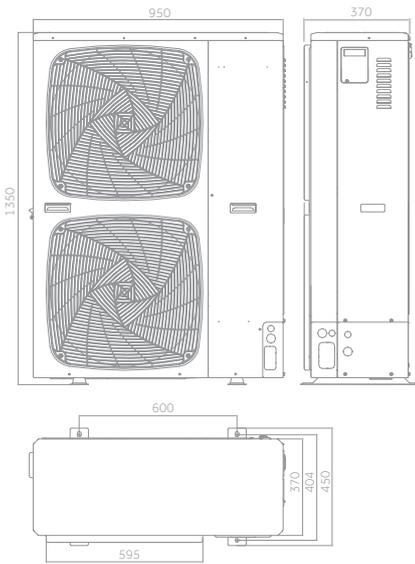
AP140 - AP160



1U140



1U160



14,0 kW



16,0 kW

# CABINET NEW

# Haier

14,0 kW

16,0 kW

OPTIONAL CONTROL



YR-HRS01



Silence



3D



Auto Mode



Auto Restart



Wi-Fi control integrated



UVC Sterilisation

- Low sound level
- 3D airflow: horizontal and vertical louver movement
- Auto mode
- Auto restart
- Wi-Fi control integrated
- UVC Sterilisation

INDOOR UNIT	Model		AP140S2SK1FA(H)	AP140S2SK1FA(H)	AP160S2SK1FA(H)
OUTDOOR UNIT	Model		1U140S2SN1FA	1U140S2SN1FB	1U160S2SP1FB
Performance data					
Output power - COOLING	nom (min-max)	kW	13,40 (3,50-14,00)	13,40 (3,50-14,00)	15,0 (4,5-16,0)
Output power - HEATING	nom (min-max)	kW	15,00 (4,00-15,50)	15,00 (4,00-15,50)	16,0 (5,0-17,0)
Absorbed power - COOLING	nom (min-max)	kW	5,83 (1,00-6,50)	5,40 (1,00-6,50)	6,0 (1,8-6,4)
Absorbed power - HEATING	nom (min-max)	kW	5,45 (1,00-6,50)	5,43 (1,00-6,50)	6,4 (1,6-5,48)
Energy class	EER	W/W	2,30	2,48	2,5
	COP	W/W	2,75	2,76	3,1
COOLING Pdesign	35 °C	kW	13,40	13,40	15,0
HEATING Pdesign	(-10 °C)	kW	8,50	8,50	11,0
Energy class	SEER		5,60 (A+)	5,66 (A+)	5,6 (A+)
	SCOP		3,93 (A)	3,95 (A)	4,0 (A+)
Annual Energy Consumption - COOLING		kWh/a	837	829	880
Annual Energy Consumption - HEATING		kWh/a	3018	3012	3859
Indoor Unit					
Power supply		Ph/V/Hz	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60
Treated air volume	(H/M/L/Q)	m <sup>3</sup> /h	1850/1500/1350	1850/1500/1350	1850/1500/1350
High sound power		dB	65	65	67
Sound pressure		dB(A)	52/49/46	52/49/46	52/49/46
Net dimensions	WxDxH	mm	600x350x1850	600x350x1850	600/350/1850
Packaging dimensions	WxDxH	mm	693x438x2035	693x438x2035	693/438/2035
Net/gross weight		kg	50,0/61,0	50,0/61,0	50,0/61,0
Outdoor Unit					
Power supply		Ph/V/Hz	1/220~240/50/60	3/380-415/50/60	3/380-415/50/60
Power cable		N x mm <sup>2</sup>	3 x 6,0	5 x 4,0	5 x 4,0
Interconnection cable		N x mm <sup>2</sup>	4 x 2,5	4 x 2,5	4 x 2,5
Sound power	H	dB	72	72	72
Sound pressure	H	dB(A)	58	58	58
Running current cooling/heating	Max	A	30,0	10,0	10,0
Starting current cooling/heating	Max	A	5,0	2,0	2,0
Net dimensions	WxDxH	mm	950x370x965	950x370x965	950/370/1350
Packaging dimensions	WxDxH	mm	1050x485x1130	1050x485x1130	1050/485/1500
Net/gross weight		kg	84,0/89,0	85,0/90,0	101/116
Compressor type			Twin rotary inverter	Twin rotary inverter	Twin rotary inverter
Installation data					
Refrigerant			R32	R32	R32
Liquid pipe	∅	mm (inch)	9,52 (3/8)	9,52 (3/8)	9,52 (3/8)
Gas pipe	∅	mm (inch)	15,88 (5/8)	15,88 (5/8)	19,05 (3/4)
Standard pipe length without refrigerant charge		m	10	10	30
Maximum pipe length		m	70	70	70
Maximum IU - OU elevation		m	30	30	30
Refrigerant charge in the factory		kg	2,30	2,30	3,5
Refrigerant charge in the factory		TCO <sub>2</sub> eq	1,55	1,55	2,36
Additional ref. charge over std length		g/m	45	45	60
Outdoor operating limits - COOLING	min-max	°C		-20~46	
Outdoor operating limits - HEATING	min-max	°C		-20~24	