

Haier

Global
No.1
2009-2020 for 12 years
Euromonitor International Limited

INVERTER



Haier Air Conditioning



ADDRESS Unit H-08-03, Level 3, Block H, Setiawalk, Persiaran Wawasan, Pusat Bandar Puchong, 47160 Puchong, Selangor Darul Ehsan.

CONTACTS Tel: 1800 88 6666

WEBSITE www.haier.com/my

 **Global No.1 Self-Clean
Air Conditioner Brand**

Haier is the number one brand of healthy Self-Clean air conditioner in the world, with a market share of over 46% in terms of volume sales in 2020.

ENERGY SAVING & HEALTHY AIR PROVIDER

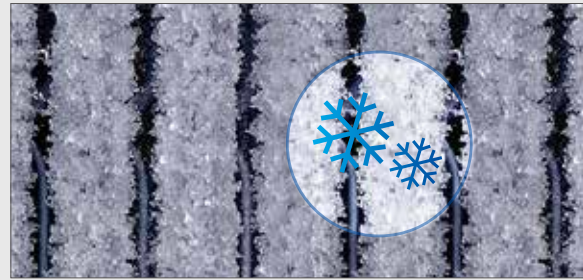


SMART CLEAN

Freezes the evaporator with moisture in the air, and removes away dirt in rapid melting, ensuring the air that comes out of air conditioners is always healthy for you.

TECHNOLOGY

Dirt accumulates on the evaporator during operation. If not cleaned regularly, the dirt leads to bacterial growth and reduces air conditioning efficiency by 15%-30%.



Cold expansion technology

Frost on the evaporator generates strong cold expansion force easily peels dirt off the surface.



Express washing technology

Hydrophilic aluminum coating with smaller angle helps increase water drainage efficiency by 20%.



Anti-bacteria technology

The coating contains silver nanoparticles that kill bacteria and inhibits their growth with efficiency up to 99%.

BENEFIT

Blowing cleaner air



The innovative technology kills bacteria and keeps the evaporator clean.

Higher energy efficiency



Air conditioner always work at full cooling capacity to consume less energy.

Saving cleaning cost



Regular manual cleaning by service technician costs a lot of money.

TUV certificate

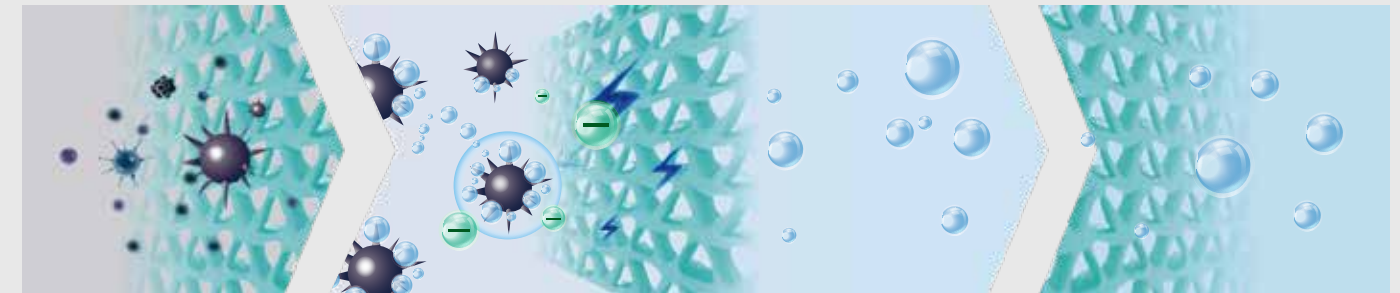


PM2.5 FILTER

Haier air conditioner with PM2.5 filter system ensure that the air inside your home is free of various harmful such as hair, dust mites, pollen, fungi spores, bacteria, exhaust fumes and smoke. These PM2.5 filter together capture both visible and invisible dust and other harmful microscopic substances.

TECHNOLOGY

The PM2.5 filter acts as the first line of defence against bacteria and dust particles up to 3 µm in size. The PM2.5 filter captures microscopic dust particles and allergens up to 0.3µm in size to provide clean an hygienic air.



Step 1

Dust is captured by filter

Step 2

The Micro Dust filter captures dust particles charged with negative ions

Step 3

Purified air is produced

BENEFIT



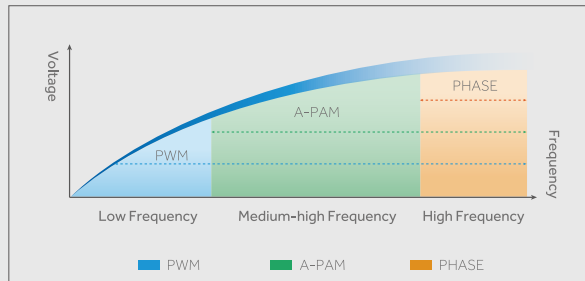
The PM2.5 filter uses electrostatic charges to capture microscopic particles (<0.3µm) including allergens such as pollen and dust.



INVERTER PLUS

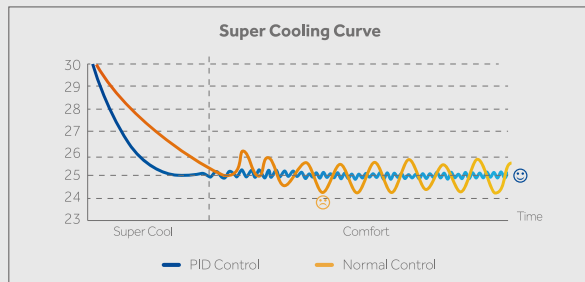
Integrates TLFM inverter control, PID inverter control and A-PAM inverter control to achieve smart control of the air conditioner and, in the meanwhile, maximize comfort, reliability and efficient performance.

TECHNOLOGY



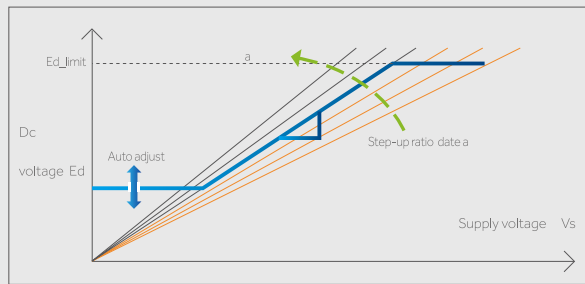
TLFM inverter control

TLFM, or Triple Linkage Frequency Modulation, inverter control utilizes 3 voltage different controls to manage the optimal operation efficiency in every frequency phase.



PID inverter control

PID, or Proportion Integration Differentiation, inverter control maximizes the working frequency before reaching the desired temperature, and, after that, constantly makes real-time adjustments to match room air temperature with the desired temperature.



A-PAM inverter control

A-PAM, or Adoption-Pulse Amplitude Modulation, inverter control automatically adjusts DC bus voltage in accordance with the compressor load, to increase operation voltage range.

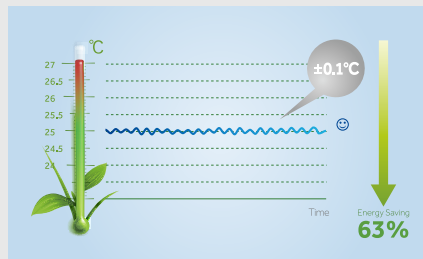
BENEFIT

Energy-saving performance



Inverter Plus achieves high working efficiency at all frequency phases. The cooling/heating performance is much more faster and powerful.

Cool, comfortable airflow



When the air conditioner is on, Inverter Plus reaches desired temperature much quicker than the conventional, and then maintain the it with $\pm 0.1^{\circ}\text{C}$ precise temperature control.

Reliability



Inverter Plus adjusts DC voltage to achieve stable operation between 120V-264V with ideal voltage control. In remote areas, users can enjoy cool air despite power fluctuations.



HYPER PCB

Provides consistent, powerful cooling with optimized design to cope with voltage fluctuations and unexpected damages that may lead to malfunction of the air conditioner.

TECHNOLOGY

FR-4 material

FR-4 GEA standard HALT test on 120 C
Dual 85 Test 432h

Capacitor

High voltage 550SV
Surge voltage 500V→550V
Opening valve voltage 500→600V



20%

Thicker conformal coating

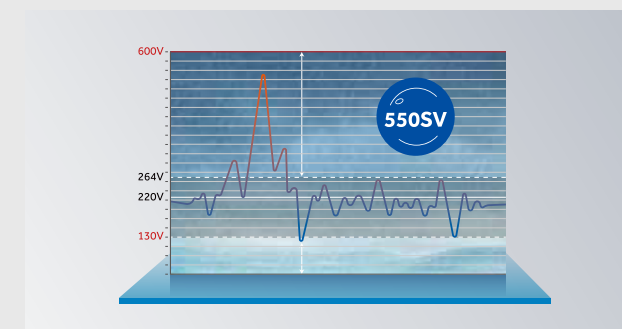
UV glue spray automatically The Salt spray test showed that the coating can prevent the PCB from corrosion for about 192 hours

Compact design

PM can achieve high precision compressor frequency control with VOT function operating temperature 53°C→65°C

BENEFIT

More stable



The PCB works stably between 130V-264V, and endures the maximum surge voltage of 550SV. It enables air conditioner to provide consistent cooling in harsh environment.

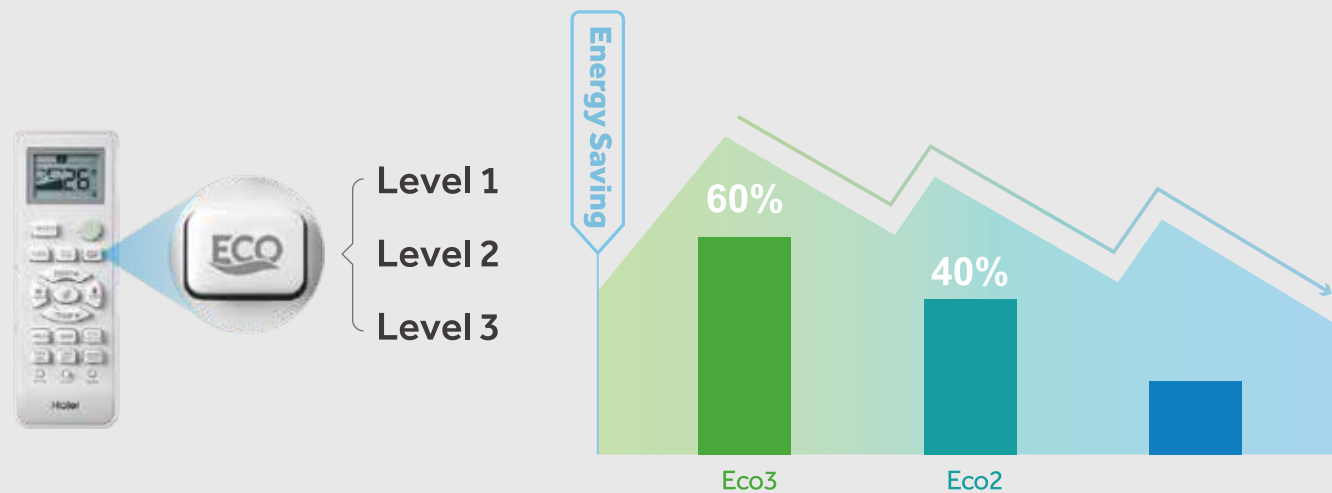
More durable



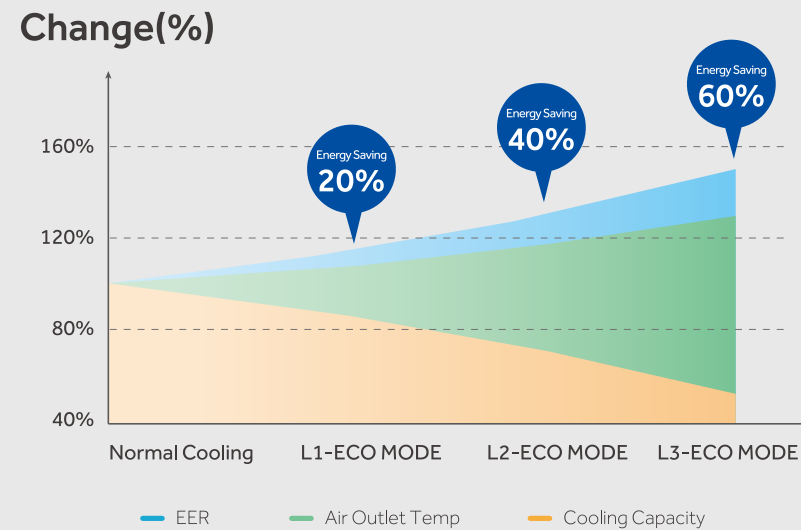
Special design and better conformal coating protect its components against various elements that reduce its lifespan.

By limiting the current energy consumption under Eco mode will be reduced 20%-60% compared with normal model. Stay cool and do not have to worry about electricity bills.

TECHNOLOGY



BENEFIT



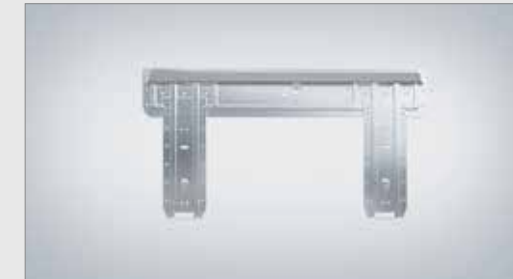
Active Energy Saving

Innovative ECO Mode improves the energy efficiency by reducing cooling output without any comfort compromise.

3-Level Control

The special control program allows the air conditioner work at different levels, and offers the best choice to users.

TECHNOLOGY



Positioning Specifications

Help fix the mounting plate and hang air conditioner at proper position.



Detachable Bottom Cover

Helps open the bottom to connect piping and wiring without screwdriver.



Extended Kickstand

Makes the installation easy with larger operation area.



Easy Access Fan Motor

Simplifies dismounting and maintenance without disassembling evaporator.



Wider Tubing Space

Saves installation time with larger operation space for piping and wiring.



Easy Access Control Board

Simplifies dismounting and maintenance without disassembling casing.

BENEFIT

50% Saving 50% of installation time

80% Saving 80% of maintenance time

Clean Cool Pro R32 Inverter Malaysia 4 star



Remote Controller



Clean Cool Pro R32 Inverter Malaysia 4 star



Remote Controller



	Indoor		HSU-10VTH21	HSU-13VTH21	HSU-19VTH21	HSU-25VTH21
	Outdoor					
Capacity (W)	W		2784	3663	5304	7350
	BTU		9500	12500	18100	25000
Power input (W)	Cooling		795	1100	1700	2200
CSPF			4.80	4.80	4.40	5.30
Star Rating			4	4	4	5
Running current (A)	Cooling		4.4	6.4	8.0	9.7
Power supply (Ph/V/Hz)			1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Air circulation (m ³ /h)			660	720	800	1200
Moisture removal (10 ⁻³ m ³ /h)			1.2	1.6	2.0	2.6
Refrigerant			R32	R32	R32	R32
Refrigerant pipe (mm)	Liquid side diameter		6.35	6.35	6.35	6.35
	Gas side diameter		9.52	9.52	12.7	12.7
Indoor						
Net dimension (mm)	W/D/H		820/195/280	865/200/290	910/215/305	1125/240/335
Package dimension (mm)	W/D/H		909/279/355	954/279/355	991/313/399	1206/342/418
Net weight (kg)			9.0	9.1	11.5	14.0
Gross weight (kg)			10.5	11.1	13.5	17.5
Noise [dB(A)] (Hi/Mid/Lo/So)			38/34/29/24	38/35/32/29	43/40/37/34	48/45/43/40
Outdoor						
Net dimension (mm)	W/D/H		700/245/544	700/245/544	800/275/553	890/353/697
Package dimension (mm)	W/D/H		845/320/590	845/320/590	954/409/625	1046/460/780
Net weight (kg)			21.5	23.0	30.0	45.5
Gross weight (kg)			24.5	25.0	33.0	50.0
Noise [dB(A)]			50	52	52	55
Max Pipe Length(m)			15	15	25	25
Max Pipe Height(m)			10	10	15	15
Chargless Piping Length(m)			5	5	5	5
Amount of additional Refrigerant (g)			20	20	20	20
Amount of Gas(g)			500	550	700	1200
Power Supply			indoor	indoor	indoor	indoor
Metering Device			capillary tube	capillary tube	capillary tube	capillary tube

Key Features



Smart Clean



Energy Saving 63%



Hyper PCB



Turbo Mode



PID Inverter Technology



ECO Mode



DC Compressor



Exquisite Dust Filter

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB, Cooling Outdoor 35°C DB / 24°C WB, Heating Indoor 20°C DB, Heating Outdoor 7°C DB / 6°C WB, (DB: Dry Bulb; WB: Wet Bulb)

For detailed information about ErP, please visit our page <http://www.haier.com/ecodesign>.

Model	Indoor		HSU-10VTK21	HSU-13VTK21	HSU-19VTK21
	Outdoor				
Capacity (W)	W		2784	3663	5304
	BTU		9500	12500	18100
Power input (W)	Cooling		795	1100	1700
CSPF			4.80	4.80	4.40
Star Rating			4	4	4
Running current (A)	Cooling		4.4	6.4	8.0
Power supply (Ph/V/Hz)			1/220-240/50	1/220-240/50	1/220-240/50
Air circulation (m ³ /h)			660	720	800
Moisture removal (10 ⁻³ m ³ /h)			1.2	1.6	2.0
Refrigerant			R32	R32	R32
Refrigerant pipe (mm)	Liquid side diameter		6.35	6.35	6.35
	Gas side diameter		9.52	9.52	12.7
Indoor					
Net dimension (mm)	W/D/H		820/195/280	865/200/290	910/215/305
Package dimension (mm)	W/D/H		909/279/355	954/279/355	991/313/399
Net weight (kg)			9.0	9.1	11.5
Gross weight (kg)			10.5	11.1	13.5
Noise [dB(A)] (Hi/Mid/Lo/So)			38/34/29/24	38/35/32/29	43/40/37/34
Outdoor					
Net dimension (mm)	W/D/H		700/245/544	700/245/544	800/275/553
Package dimension (mm)	W/D/H		845/320/590	845/320/590	954/409/625
Net weight (kg)			21.5	23.0	30.0
Gross weight (kg)			24.5	25.0	33.0
Noise [dB(A)]			50	52	52
Max Pipe Length(m)			15	15	25
Max Pipe Height(m)			10	10	15
Chargless Piping Length(m)			5	5	5
Amount of additional Refrigerant (g)			20	20	20
Amount of Gas(g)			500	550	700
Power Supply			indoor	indoor	indoor
Metering Device			capillary tube	capillary tube	capillary tube

Key Features



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PM2.5 Filter

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB, Cooling Outdoor 35°C DB / 24°C WB, Heating Indoor 20°C DB, Heating Outdoor 7°C DB / 6°C WB, (DB: Dry Bulb; WB: Wet Bulb)

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