

# Residential MonoSplit Inverter

# TIDE

# Haier

MONOSPLIT RESIDENTIAL



2,5 kW

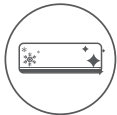
3,5 kW

5,0 kW

6,8 kW



Standard YR-HE



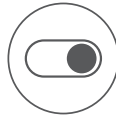
Self Clean



-15°C Heating



Wi-Fi control integrated



On-Off Card



Silence



Sleep



Intelligent Air

- Self-Clean
- -15°C Heating
- Wi-Fi control integrated
- On - Off Card
- Low noise level
- Comfortable Sleep
- Intelligent Air

INDOOR UNIT	Model		AS25THMHRA-C	AS35TAMHRA-C	AS50TDMHRA-C	AS68TEMHRA-C
OUTDOOR UNIT	Model		1U25YEFFRA-C	1U35YEFFRA-C	1U50MEMFRA-C	1U68RENFRA-C
<b>Performance data</b>						
Output power - COOLING	nom (min-max)	kW	2,60 (0,80-3,00)	3,20 (0,80-3,60)	5,00 (1,30-5,80)	7,00 (2,20-8,50)
Output power - HEATING	nom (min-max)	kW	2,80 (0,80-3,20)	3,40 (0,80-4,20)	5,20 (1,40-6,00)	8,10 (2,40-10,00)
Absorbed power - COOLING	nom (min-max)	kW	0,804 (0,30-1,20)	1,063 (0,30-1,60)	1,466 (0,40-2,00)	2,167 (0,70-2,90)
Absorbed power - HEATING	nom (min-max)	kW	0,754 (0,30-1,40)	1,000 (0,30-1,60)	1,400 (0,52-2,50)	2,183 (0,70-2,90)
Energy class	EER	W/W	3.23	3.01	3.41	3.23
	COP	W/W	3.71	3.4	3.71	3.71
COOLING Pdesign	35 °C	kW	2,60	3,20	5,00	7,00
HEATING Pdesign	(-10 °C)	kW	2,40	2,80	4,60	5,60
Energy class	SEER		6,10 (A++)	6,10 (A++)	6,10 (A++)	7,10 (A++)
	SCOP		4,00 (A+)	4,00 (A+)	4,00 (A+)	4,00 (A+)
Annual Energy Consumption - COOLING		kWh/a	149	184	287	350
Annual Energy Consumption - HEATING		kWh/a	840	980	1610	1963
<b>Indoor Unit</b>						
Power supply		Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/230/50
Treated air volume	H	m <sup>3</sup> /h	500	550	900	1200
Dehumidification		L/h	1,0	1,4	2,0	2,8
High sound power - COOLING		dB	54	56	57	60
High sound power - HEATING		dB	54	56	57	60
Sound pressure - COOLING		dB(A)	37/33/29/19	38/34/29/20	44/40/35/28	47/43/37/30
Sound pressure - HEATING		dB(A)	37/33/29/19	38/34/29/20	44/40/35/28	47/43/37/30
Net dimensions	WxDxH	mm	820x195x280	820x195x280	1008x225x318	1125x240x335
Packaging dimensions	WxDxH	mm	909x279x355	909x279x355	1085x329x403	1206x342x418
Net/gross weight		kg	8,2/10,5	8,2/10,5	11,6/14,4	14/17,5
<b>Outdoor Unit</b>						
Power supply		Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/230/50
Power cable		N x mm <sup>2</sup>	3 x 1,0	3 x 1,5	3 x 2,5	3 x 2,5
Interconnection cable		N x mm <sup>2</sup>	4 x 1,0	4 x 1,0	4 x 1,0	4 x 1,0
Sound power	H	dB	62	63	65	65
Sound pressure	H	dB(A)	49	50	53	52
Running current cooling/heating	Max	A	6,2/6,2	7,1/7,1	11,3/11,3	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
Net dimensions	WxDxH	mm	700x245x544	700x245x544	800x275x553	890x353x697
Packaging dimensions	WxDxH	mm	845x320x593	845x320x593	908x405x625	1046x460x780
Net/gross weight		kg	22,8/25,3	23,5/26,0	32,7/36,5	47,3/52,3
Compressor type			Rotary inverter	Rotary inverter	Rotary inverter	Rotary inverter
<b>Installation data</b>						
Refrigerant			R32	R32	R32	R32
Liquid pipe	∅	mm (inch)	6,35 (1/4)	6,35 (1/4)	6,35 (1/4)	6,35 (1/4)
Gas pipe	∅	mm (inch)	9,52 (3/8)	9,52 (3/8)	12,70 (1/2)	12,70 (1/2)
Standard pipe length without refrigerant charge		m	5	5	7	7
Maximum pipe length		m	20	20	25	25
Maximum IU - OU elevation		m	10	10	15	15
Refrigerant charge in the factory		kg	0.51	0.53	0.90	1.20
Refrigerant charge in the factory		TCO <sub>2eq</sub>	0.34	0.36	0.61	0.81
Additional ref. charge over std length		g/m	20	20	20	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			

# 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.



## 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.

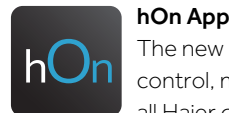
# VOICE-CONTROL



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?

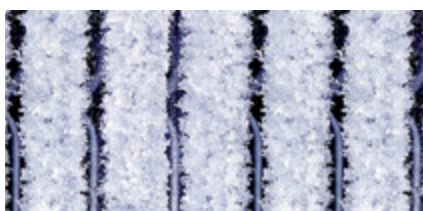
# SELF-CLEAN FUNCTION



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



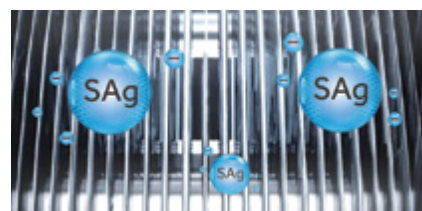
The layer of frost that forms on the evaporator/condenser generates a strong force of cold expansion that easily removes dirt from the surface.

### 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



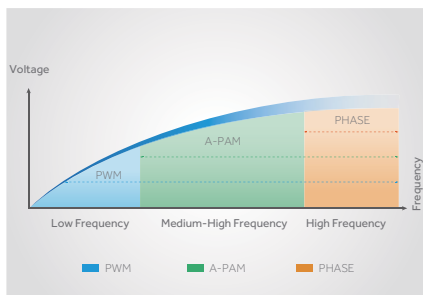


# INVERTER PLUS



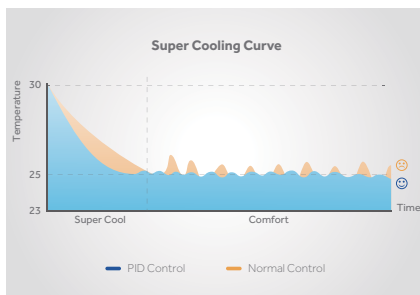
Compared to conventional inverter technology, Haier Inverter Plus integrates the TLFM, PID and A-PAM inverter controls to achieve intelligent control of the air conditioner, and at the same time provide maximum comfort, reliability and highly efficient performance.

## TECHNOLOGY



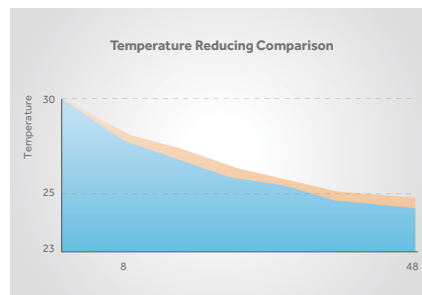
### TLFM Inverter Control

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

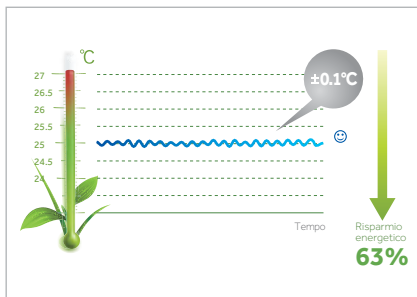
The A-PAM (Adoption-Pulse Amplitude Modulation) inverter control technology automatically adjusts the voltage of the DC bus based on the compressor load, increasing the range of operating voltage.

## BENEFIT



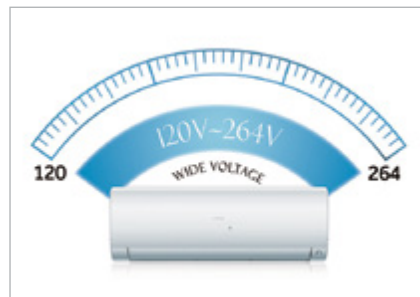
### Energy saving Performance

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

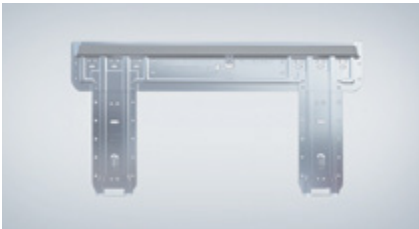
Inverter Plus adjusts the CC voltage by achieving stable operation between 120V-264V and ideal voltage control. The fresh air is able to reach even the most distant points of the room despite the current changes.

# EASY INSTALLATION



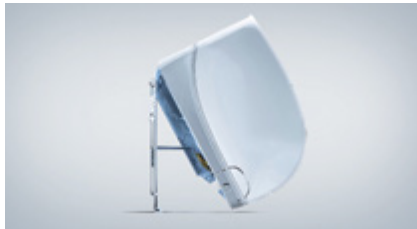
## TECHNOLOGY

### Positioning specifications



Install the mounting plate and fix the air conditioner at the appropriate height.

### Easy clip (larger tubing space)



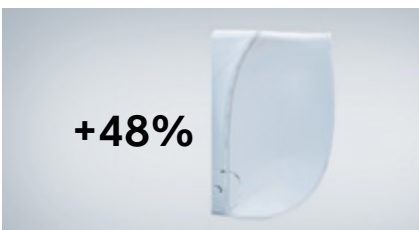
Facilitates installation with a larger workspace.

### Easily accessible control panel



Simplified disassembly and maintenance without the need to dismantle the housing.

### More spacing for pipes



Reduces installation time by increasing operating space to easily access the piping and electrical connections area.

### Easily accessible fan motor



Simplifies disassembly and maintenance without the need to remove the evaporator.

### Removable bottom panel



Allows the installer to connect pipes and cables without the aid of a screwdriver.