

# Haier

## LIGHT COMMERCIAL

R410a



2018 General Catalogue  
**Haier Commercial Air Conditioning**



## Haier Appliances (India) Pvt. Ltd.



### ADDRESS

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## Haier Commercial Air Conditioning



### ADDRESS

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# Haier Brand Story

The Internet era is a diverse and unconventional time, where "one size fits all" products and solutions simply aren't enough. Customers want to be treated as individuals and respected for who they are.

Everyone wants their unique lifestyle acknowledged. That is why Haier listens closely to you in order to gain a genuine understanding of what is going on in your life and what is on your mind. So each of you can get the smart home experience you deserve: be it simple, sophisticated, organized or enjoyable.

As a worldwide industry leader, Haier innovates beyond products and solutions and turns the organization into a wholly connected platform. In doing so, internal and external resources are connected quickly and easily. We believe only by doing so, we can best meet our consumers' expectations in this rapidly evolving world.

Be part of the Haier Network. Create new possibilities.

# Haier Global Network

From introduction to absorption, from manufacture to creation, Haier has been accomplishing Chinese people's goal of creating a world-renowned brand step over the past 30 years. Haier boasts 66 trading companies, 10 design R&D Centers, 108 manufacturing bases and 24 innovative industrial parks across the world with a global selling network comprised of 143,300 sales outlets spanning more than 100 countries. With more than 73 thousand employees worldwide, Haier has now established a "Three in one" network layout.



# Haier Global Revenue

Established in 1984, Haier is the world's **No. 1** major appliance brand.



Steady growth has been achieved due to Haier's exploration of IoT business models. From the income generated by the conventional economy, Haier is expected to see its 2016 global revenue hit RMB **201.6 billion**. Online transaction volume, which reached RMB **272.7 billion**, was generated on Haier's product online platforms, B2B, B2C socialized online platforms and internet finance platforms, representing a **73%** year-on-year increase.

# Haier AC Milestones

**1984**

Haier group was founded in Qingdao, China.

**1985**

Developing China's first split air conditioner

**1993**

Developing China's first inverter air conditioner

**1995**

Launching China's first dual split inverter conditioner.

Starting to export air conditioners to Europe market.

**1996**

Launching full range light commercial air conditioning solution.

**1998**

Launching VRF system with the cooperation with Toshiba.

Developing the first digital DC inverter air conditioner in China.

**1999**

Starting to export air conditioners to USA .

**2001**

Building up industry park in Pakistan and catching No.1 market share in 2005.

**2005**

Releasing R410a DC inverter X-multi system.

**2006**

Achieving IF design award, one of 10 creative products in the world. Releasing R410a centrifugal chiller with maglev technology and R410a DC inverter VRF system.

**2007**  
Achieving the bid of 20 projects of Beijing Olympic Games.

**2009**  
Achieving red dot design award.

**2010**  
Introducing the more advanced Freon-free DC inverter air conditioner and magnetically levitated VRF system with high energy efficiency.

**2011**  
Launching full range of SUPER MATCH solutions covering on-off and inverter models as well as mono and multi systems.

**2012**  
Establishing Haier Europe HOME SOLUTION platform at Lyon France to accelerate the marketing of RAC/CAC/He at pump/Solar solution.

**2013**  
Launching Emperor series and Aero series floor standing models which lead the innovation in design and air supply system.

**2014**  
Establishing AC R&D center to enhance the R&D ability with more focus on users' requirement

**2015**  
Launching MRV IV full DC INV. technology Max. 3 modular up to 72HP.

**2016**  
Launching Super Match Smart Power Series, high performance A++ full line.

**2017**  
Launching MRV5 full DC INV. technology Max.4 modular up to 104HP

# AC R&D Center

Haier Air Conditioning R&D Center, located in Qingdao, China, completed in December 2013, covers 20,000 square meters. It has more than 120 laboratories, including testing laboratories, key part research laboratories and all-weather user experience simulation laboratories. The R&D center also has the world tallest "drop tower" for testing long refrigerant piping tests(350 feet tall).

In April 2014, Haier established joint laboratories with Highly for research in heating & cooling technology and with Mitsubishi Electric for innovative technology for user experience. Research by the user experience center covers the fields of user comfort evaluation, aerodynamics, acoustics, EMC(Electro-Magnetic Compatibility) and mechanics etc. The labs can carry out more than 600 international tests as per ISO, IEC, EN, CISPR and ANSI etc. to meet the requirements of Europe, Asia, America, Australia, Middle East and other 100 countries and regions.

The user experience center gains recognition by domestic well-known certification and testing institutions, also is recognized by international organizations like TUV and Intertek etc. At Haier, we believe that the best air conditioning is one that builds on uncompromising quality control worldwide, developing and manufacturing fine products and delivering them to customers everywhere.



# Global Manufacturing Capacity

Domestically, Haier AC is running 8 factories, 1 of which is MHAQ, a JV between Haier and Mitsubishi Heavy. In overseas markets, Haier is running 8 manufacturing plants.

With all these factories, Haier AC has a product capacity amounts to 20.1 million sets per year.







Home



Office



Shop



Hotel



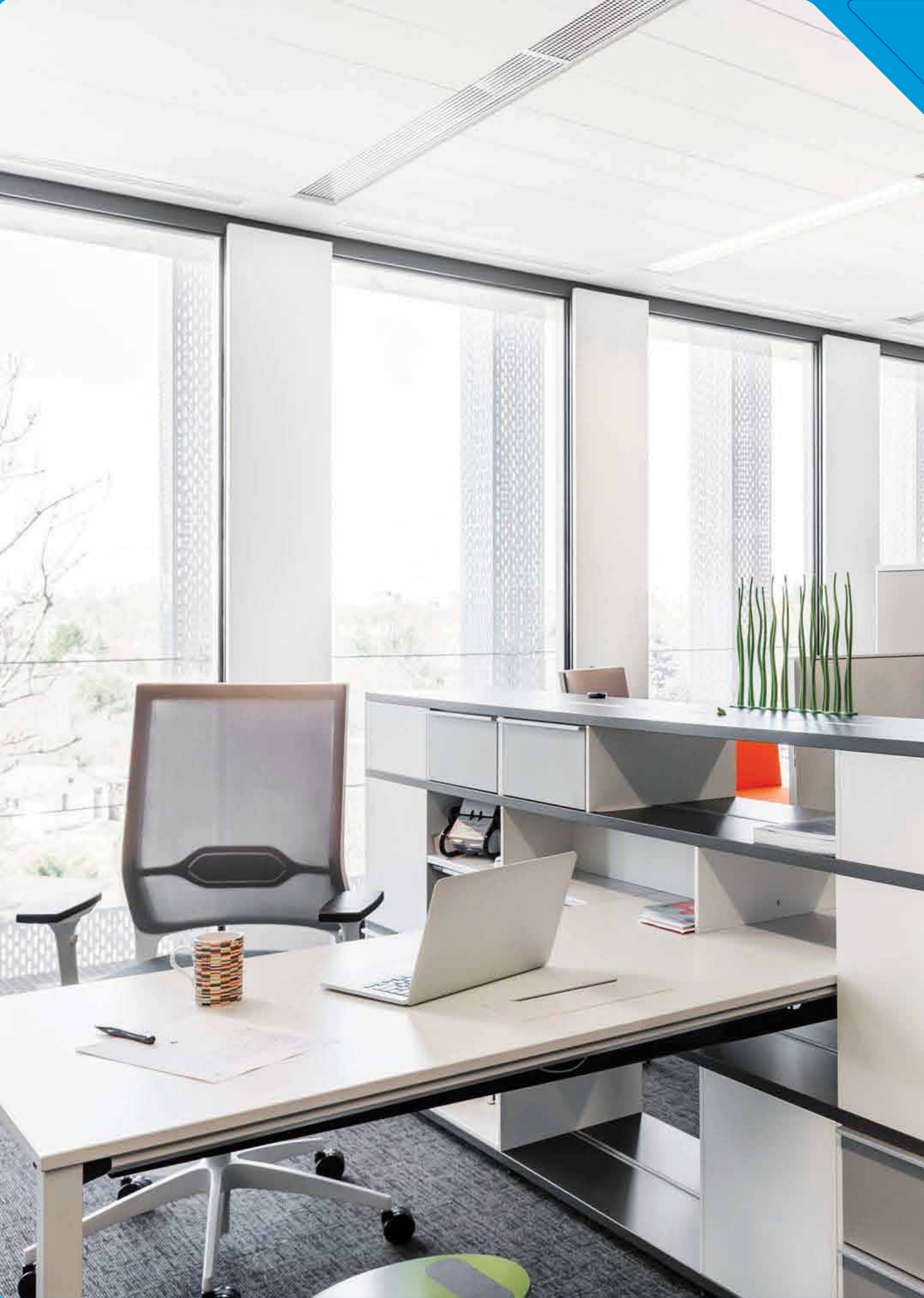
# CONTENTS



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A vertical strip on the left side of the page shows a portion of an office interior. It includes a window with blinds, a desk, and office chairs, all in a neutral color palette. The rest of the page is a solid blue background with white geometric lines forming a grid-like pattern.

# INVERTER SERIES

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# Models Line-up



HEAT PUMP

**NEW**

Type	Btu/h TR Power	Standard Controller	18000	24000	1/220~240/50
			1.5	2.0	
Cassette	YR-HBS01		★★ ★  AB18CC1ERA	★★ ★ ★  AB24GC1ERA	
			 1U18FC1ERA	 1U24HC1ERA	
Tower	YR-HD				
Duct	YR-E17			★★ ★  AD24SS1ERA(N)	
				 1U24GS1ERA	

	48000	66000	105000
	4.0	5.5	8.7
3/380-415/50			
	 <p>AB48HC1ERA</p>		
	 <p>1U48IC1ERB</p>		
	 <p>AP48KS1ERA(S)</p>	 <p>AP60KS1ERA(S)</p>	
	 <p>1U48LS1ERB(S)</p>	 <p>1U60IS1ERB(S)</p>	
		 <p>ADH66H1ERG</p>	 <p>ADH102H1ERG</p>
		 <p>1UH66P1ERK</p>	 <p>1UH102W1ERK</p>

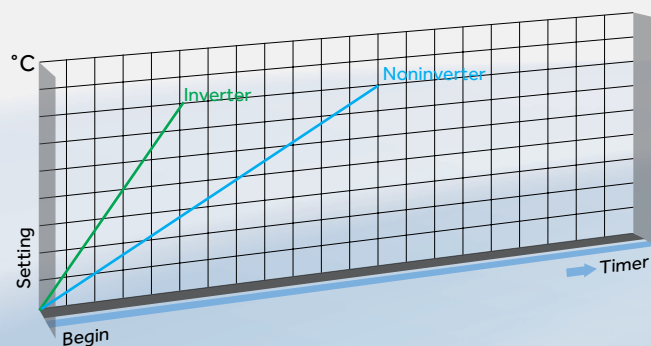


## Outdoor Unit

### DC Inverter Technology

#### ► Powerful startup

Haier DC inverter system can startup and running at maximum frequency very quickly in order to reach the set temperature in the shortest time, which brings you great comfort experience.

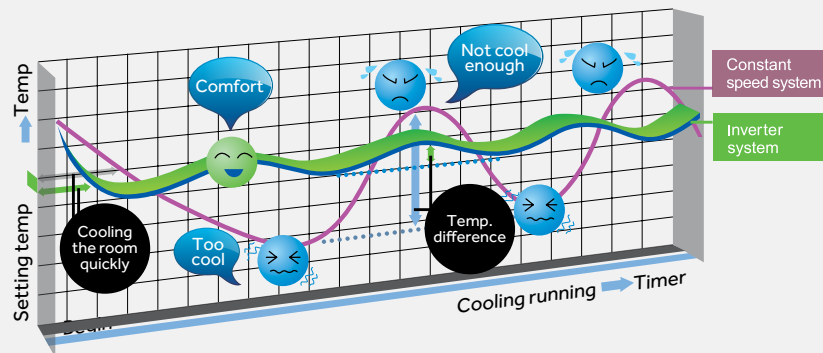


# Key Feature

## DC Inverter Technology

### ► Comfort

Haier DC inverter system will reduce the frequency and running smoothly according to the real load request after reach the set temperature. The temperature tolerance will be within  $\pm 1^\circ\text{C}$ , bring end user real comfort.

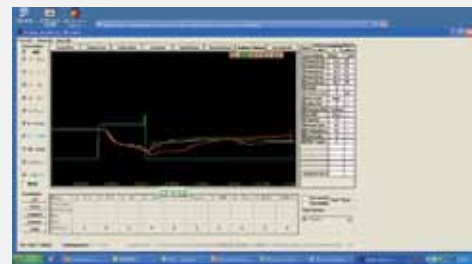


## Installation Friendly

### ► Easy start up & maintenance

In start up & maintenance, PC monitor can connect to outdoor unit by TD-02, read all indoor unit & outdoor unit running parameter, also with the function to show parameter & curve.

When malfunction happen, show failure code.

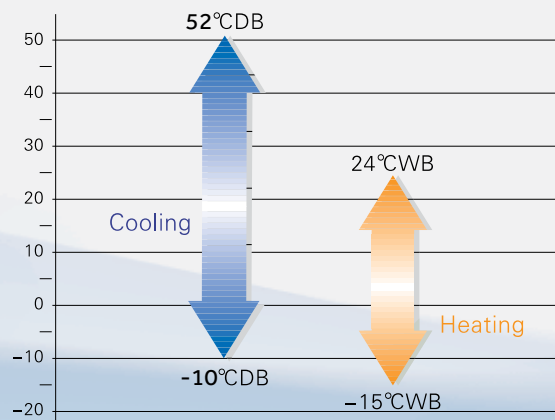


## Wider Operation Range

### ► Low temp. cooling or heating

Haier DC inverter system provide much wider working range that is suitable for special cooling, heating requirement.

Default production working range: Cooling:  $-10^\circ\text{C}$ ~ $52^\circ\text{C}$  Heating:  $-15^\circ\text{C}$ ~ $24^\circ\text{C}$







## Cassette

### High Efficiency

#### ► New heat exchanger design

The area of exchanger is enlarge to increase heating efficiency.



# Key Feature

## Stylish Design

### ► "Spiral" panel

"Spiral" concept, "Haier" image .



### ► Flap is closed when air conditioner off

There is no crack from the flap and the panel when the air conditioner off. More elegance .



### ► Hidden LCD display

The 360° smart flow cassette have hidden LCD display design. Green display for cooling and Red display for heating.



### ► ABS material panel

ABS material makes the panel "piano white", different from "dark white" PS material color. The panel and flap are the same material. After 10 years, the panel color won't change to yellow color because the ABS material prevents discoloration against light raying.



## Low Sound Level

### ► Super big inlet grille

Compared to conventional air inlet grill, we enlarge the air inlet area by 23%, lower air speed & lower the sound level.

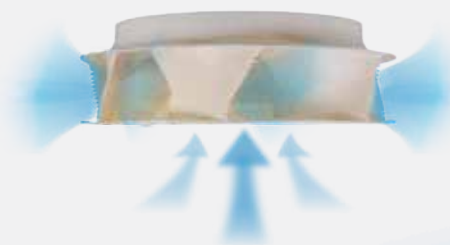


23%



### ► New designed fan

The diameter of new fan is enlarged based on acrodynamic theory, so that there is the least resistance against airflow. Reduce 3dB(A) for sound level.



# Key Feature

## Comfort Airflow

### ▶ Round way air supply

Round way air supply without blind spot.



4 way airflow



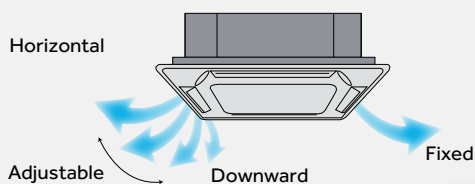
Unique round way air flow design

### ▶ Individual flap control

The four flaps can be controlled individually according to end users by controller, providing maximum comfort throughout the room, it is a good solution to avoid "air conditioning disease".



corner installation solution

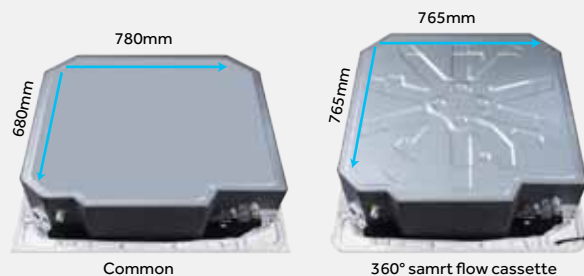


comfort solution

## Easy Installation

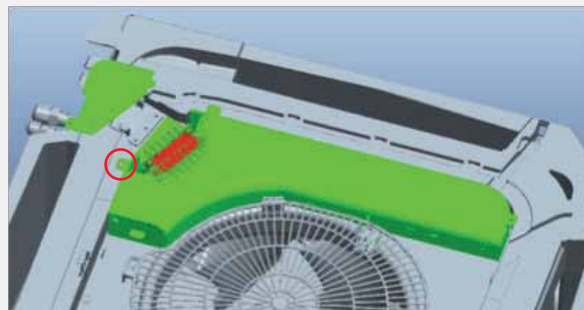
### ▶ Square hanger

Innovative square hanger, flexible direction adjustment, avoid second try installation.



### ▶ Undoing only one screw

Installer can finish wiring by undoing one screw.



### ▶ Convenient clip

There is clip to lock the panel. Just one installer can finish the screwing for panel. Save manpower and easy installation.



## Easy Installation

### High lift-up drain pump

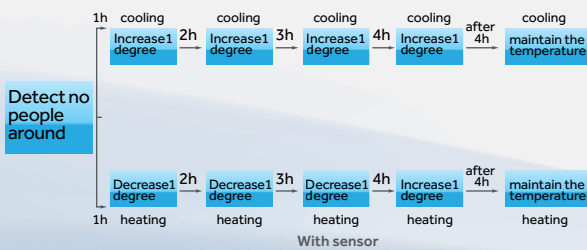
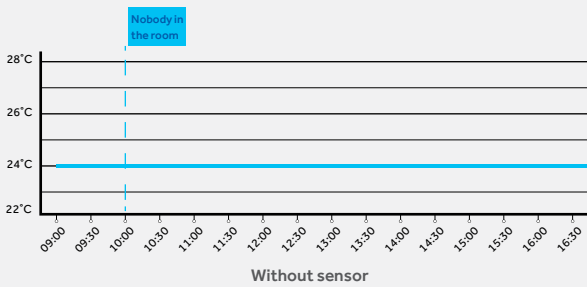
It can lift condensed water up to 1000mm, which is more flexible to install the duct according to the layout.



## Move eye intelligent system (optional)

### Absence mode

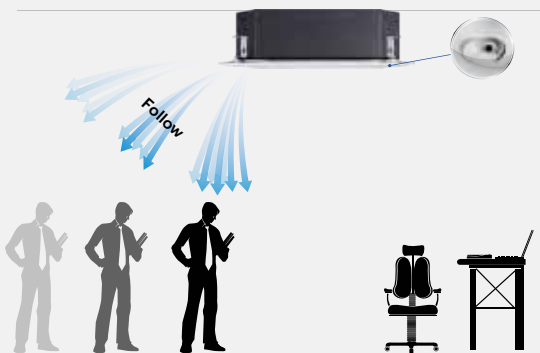
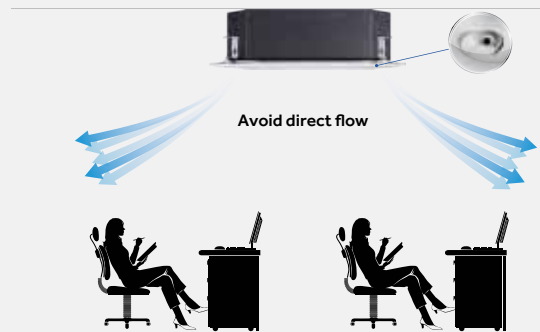
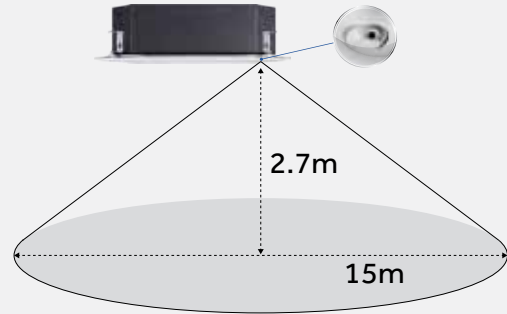
The presence sensor can check if there is end user in the room. Then change the setting degree if there is nobody in the room. Energy consumption will be reduced 27% (estimated).



## Move eye intelligent system (optional)

### Automatic airflow direction

The airflow will follow or evade the end user in accordance with end user choice on controller.



# Cassette



MODEL		Indoor unit	AB18CC1ERA	AB24GC1ERA		
		Outdoor unit	1U18FC1ERA	1U24HC1ERA		
Nominal performance data	Capacity	Cooling	Btu/h (nor) kW nor(min-max) TR (nominal)	18000 4.6(1-6) 1.5	24600 7.2(1.2-8.5) 2.1	
		Heating	Btu/h (nor) kW nor(min-max) TR (nominal)	18800 5.5(1.3-6.7) 1.6	29000 8.5(1.8-10) 2.4	
		Rated Power Input	Cooling	kW nom(min-max)	1.55(0.27-1.55)	2.10(0.37-2.5)
			Heating	kW nom(min-max)	1.62(0.3-1.8)	2.80(0.4-3.0)
	ISEER	w/w	3.6	4.00		
	COP	w/w	3.4	3.03		
	Star Rating		★ ★ ★	★ ★ ★ ★		
<b>INDOOR UNIT</b>			<b>AB18CC1ERA</b>	<b>AB24GC1ERA</b>		
Elec. parameters	Power Supply	Ph/V/Hz	1/220-240/50	1/220-240/50		
Performance	Air Flow	cfm(H) m³/h(H/M/L)	610 680/620/500	812 1249/1133/971/833		
	Sound Pressure Level (H/M/L)	dB(A)	42/37/35	44/42/39/35		
Installation	External Dimensions (W/D/H)	mm	570/570/260	840/840/204		
	Shipping Dimensions (W/D/H)	mm	718/680/380	990/990/310		
	Net/Shipping Weight	kg	23.4/28.5	28/33		
	Wireless Controller	Standard	YR-HBS01	YR-HBS01		
Panel	Panel Model		PB-700KB	PB-950KB		
	External Dimensions (W/D/H)	mm	700/700/60	950/950/50		
	Shipping Dimensions (W/D/H)	mm	740/750/115	1000/1000/110		
	Net/Shipping Weight	kg	2.8/4.8	6.5/9		
<b>OUTDOOR UNIT</b>			<b>1U18FC1ERA</b>	<b>1U24HC1ERA</b>		
Elec. parameters	Power Supply	Ph/V/Hz	1/220-240/50	1/220-240/50		
Performance	Air Flow (H)	m³/h	2600	3240		
	Sound Pressure Level	dB(A)	54	55		
Installation	External Dimensions (W/D/H)	mm	810/288/688	948/340/840		
	Shipping Dimensions (W/D/H)	mm	949/406/745	1040/430/1000		
	Net/Shipping Weight	kg	48/56	60/66		
	Compressor Type		Twin Rotary	Twin Rotary		
	Refrigerant Type		R410A	R410A		
	Refrigerant Liquid Pipe	mm	6.35	9.52		
	Refrigerant Gas Pipe	mm	12.7	15.88		
Working temp.	Max Pipe Length	m	20	30		
	Max Drop Between I.U.&O.U	m	10	20		
	Cooling (Min-Max)	°C	10-50	10-50		
	Heating (Min-Max)	°C	-15-24	-15-24		



YR-HBS01



MODEL		Indoor unit	AB48HC1ERA	
		Outdoor unit	1U48IC1ERB	
Nominal performance data	Capacity	Cooling	Btu/h (nor)	48000
			kW nor(min-max)	13.5(1.8-14.7)
			TR (nominal)	4.0
		Heating	Btu/h (nor)	47800
	Rated Power Input	Cooling	kW nom(min-max)	14(2.0-17.2)
		Heating	TR (nominal)	4
		ISEER	w/w	4.68
		COP	w/w	3.41
	Star Rating		/	
<b>INDOOR UNIT</b>			<b>AB48HC1ERA</b>	
Elec. parameters	Power supply	Ph/V/Hz	1/220-240/50	
Performance	Air Flow	cfm(H)	1206	
		m <sup>3</sup> /h(H/M/L/SL)	1901/1600/1350/1050	
Installation	Sound Pressure Level (H/M/L)	dB(A)	48/46/42/37	
	External Dimensions (W/D/H)	mm	840/840/246	
	Shipping Dimensions(W/D/H)	mm	990/990/310	
	Net/Shipping Weight	kg	33/38	
Panel	Wireless Controller	Standard	YR-HBS01	
	Panel Model		PB-950KB	
	External Dimensions (W/D/H)	mm	950/950/50	
	Shipping Dimensions (W/D/H)	mm	1000/1000/110	
	Net/Shipping Weight	kg	6.5/9	
<b>OUTDOOR UNIT</b>			<b>1U48IC1ERB</b>	
Elec. parameters	Power supply	Ph/V/Hz	3/380-415/50	
Performance	Air Flow (H)	m <sup>3</sup> /h	6000	
	Sound Pressure Level	dB(A)	58	
Installation	External Dimensions (W/D/H)	mm	948/340/1250	
	Shipping Dimensions (W/D/H)	mm	1095/410/1400	
	Net/Shipping Weight	kg	94/100	
	Compressor Type		Twin Rotary	
	Refrigerant Type		R410A	
	Refrigerant Liquid Pipe	mm	9.52	
	Refrigerant Gas Pipe	mm	19.05	
	Max Pipe Length	m	50	
	Max Drop Between I.U.&O.U	m	30	
Working temp.	Cooling (Min-Max)	°C	10-50	
	Heating (Min-Max)	°C	-15-24	



## Tower

### Comfort

#### ► 15m Long distance airflow

According to the requirement of office room and large parlor, 15m long distance.

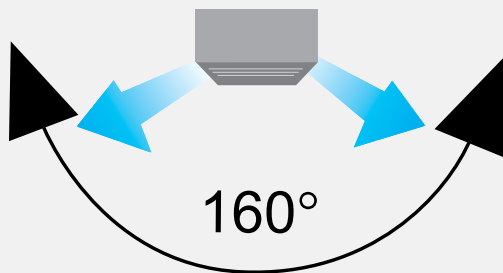


# Key Feature

## Comfort

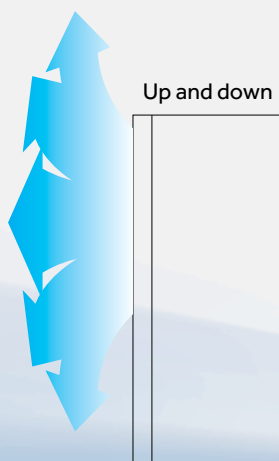
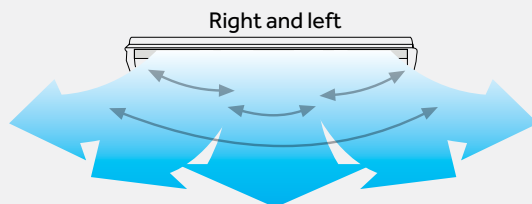
### ► Wide angle 160° air supply

Rounding 3-dimensional, 160 wide angle air sending, reach every corner of the room.



### ► 3D airflow

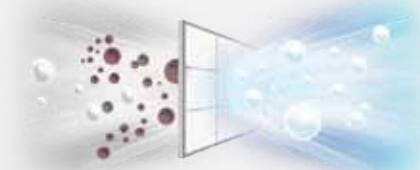
The cabinet type adopts two stepping motors to combines vertical and horizontal auto-swing to circulate cool/warm air to the every corner of the room.



## Health

### ► High efficiency air purify filter

High efficiency air purify filter effectively prevents the smaller dust articles, insects and other materials.



## Reliability

### ► Reliable protect

The system has many protect functions to achieve reliable running:High-pressure protection;Low-pressure protection;Phase protection;Over-current protection.



### ► Child lock

After you set this function, the working status can not be changed either by the remote controller or the touch screen, unless this setting is cancelled.





# Tower



YR-HD



MODEL		Indoor unit		AP48KS1ERA(S)	AP60KS1ERA(S)
		Outdoor unit		1U48LS1ERB(S)	1U60IS1ERB(S)
Nominal performance data	Capacity	Cooling	Btu/h (nor)	42650	52900
			kW nominal(min-max)	12.5(6.0-14.5)	15.5(4.0-16.0)
		TR (nominal)	3.6	4.5	
		Heating	Btu/h (nor)	44350	56300
	kW nominal(min-max)		13.0(6.0-16.5)	16.5(4.0-18.0)	
	Rated Power Input	Cooling	kW nom(min-max)	3.89(2.0-6.0)	5.13(2.0-6.5)
		Heating	kW nom(min-max)	4.05(2.0-6.0)	5.14(2.0-6.5)
ISEER			3.31	3.16	
COP			3.21	3.21	
<b>INDOOR UNIT</b>			<b>AP48KS1ERA(S)</b>	<b>AP60KS1ERA(S)</b>	
Elec. parameters	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60	
	Air Flow	cfm(H)	1030	1750/1500/1350	
Performance		m <sup>3</sup> /h (H/M/L)	1750/1500/1350	1750/1500/1350	
	Sound Pressure Level (H/M/L)	dB(A)	54/51/48	54/51/48	
	External Dimensions (W/D/H)	mm	1850/600/350	1850×600×350	
Installation	Shipping Dimensions (W/D/H)	mm	1986/691/415	1986×691×415	
	Net/Shipping Weight	kg	57/65	57/65	
	Controller	standard	YR-HD	YR-HD	
<b>OUTDOOR UNIT</b>			<b>1U48LS1ERB(S)</b>	<b>1U60IS1ERB(S)</b>	
Elec. parameters	Power Supply	Ph/V/Hz	3/380-400/50	3/380-400/50/60	
	Air Flow (H)	m <sup>3</sup> /h	4200	6500	
Performance	Sound Power Level	dB(A)	73	74	
	Sound Pressure Level	dB(A)	59	61	
	External Dimensions (W/D/H)	mm	1008/410/830	948/340/1250	
Installation	Shipping Dimensions (W/D/H)	mm	1142/498/1000	1095/410/1400	
	Net/Shipping Weight	kg	82/93	96/106	
	Compressor Type		Twin Rotary	Twin Rotary	
	Refrigerant Type		R410A	R410A	
	Refrigerant Liquid Pipe	mm	9.52	9.52	
	Refrigerant Gas Pipe	mm	19.05	19.05	
	Max Pipe Length	m	50	50	
	Max Drop Between I.U.&O.U	m	30	30	
	Refrigerant Load In Factory	kg	2.85	3.3	
	Maximum Pipe Length Without Charge Refrigerant	m	20	20	
Working temp.	Refrigerant Charge Quantity For Extra Length	g/m	45	45	
	Cooling (Min-Max)	°C	10-50	-25-50	
	Heating (Min-Max)	°C	-15-24	-15-24	





## Duct

### Design Flexibility

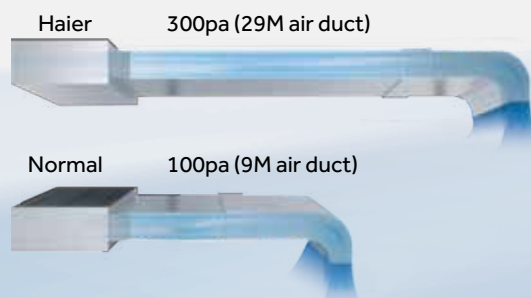
#### ▶ Super high airflow

New DC fan motor and big diameter fan design, provide 44% more air flow than medium pressure duct unit.

Capacity	Haier duct airflow (cfm)
5.5 TR	2120
8.5 TR	2540

#### ▶ 300Pa pressure setting

300pa pressure give the design flexibility, it can meet difficult ducting requirement.



# Key Feature

## Easy Installation

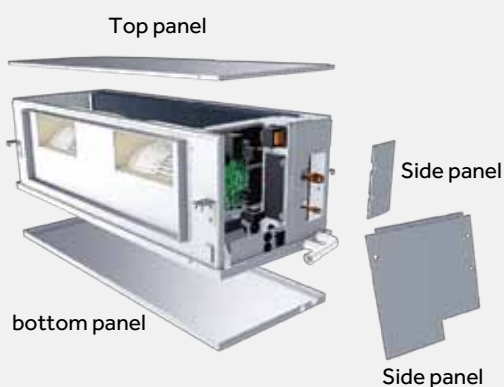
### ► Three side open the panel (5.5/8.5TR)

There are three side panel which can be opened for easy maintenance

Top panel and bottom panel can be opened to maintain the fan and motor;

Electrical panel can be opened to maintain the electrical parts;

Side panel can be opened to maintain the pipe sensor;



### ► Dedicated place to fix the wifi

There are dedicated place to fix the wifi, so installer can make easy work when fixing the wifi ;



### ► 10 step adjusted pressure

Pressure can be adjusted by Wired Controller YR-E16A/ YR-E16B / YR-E17, installation of static box not required , saves installation time.



## Energy Efficiency

### ► High efficiency design

We use DC fan motor and wide fin more rows heat exchanger, which can provide ISEER >3.7 for all high pressure duct combinations.

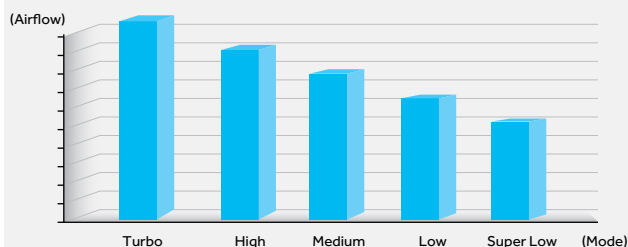
Capacity	ISEER
2.0 TR	3.7
5.5 TR	3.51
8.5 TR	3.41

## Comfort & Convenience

### ► Multi air speed for comfort

There are 4 speed airflow : super low/low/medium/high to choose for comfort.

There are also turbo mode with super high speed for quick cooling/heating.



### ► Wifi control

Besides normal wired/wireless control , Haier supply wifi control solution. Download the "smart air 2" app in IOS or android version ,you will have a remote control freely when you are out of home ,including weekly timer.



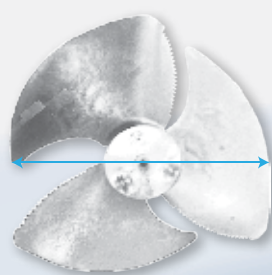


## Outdoor Unit

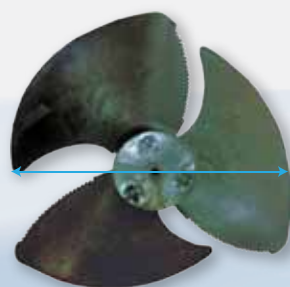
### High Efficiency

#### ► New designed fan

Based on aerodynamics theory, we create 550mm super big diameter helix fan, air flow increase 16.7%.



450mm  
CLASSIC  
POWER



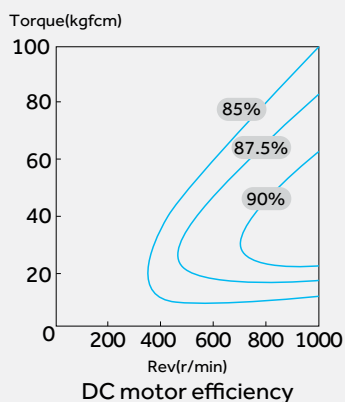
550mm  
SMART  
POWER

# Key Feature

## High Efficiency

### ► DC inverter system

For the purpose of high seasonal performance, we take high discharge DC inverter compressor and DC fan motor with different running speed in different working conditions.



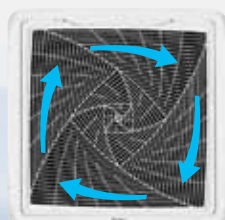
## Low Sound Level

### ► New designed air flow system

47dB(A) low sound level thanks to new airflow system which combined by new 550mm big diameter fan and air outlet grill, which reduce air resistance.



CLASSIC POWER

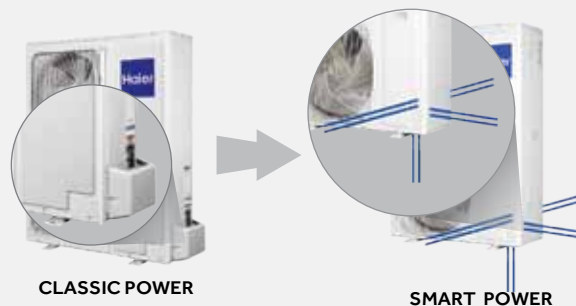


SMART POWER

## Stylish Design

### ► Built-in valve design

The new built-in valve design, it can realize 4 way pipe connection(front, rear, right, down), it is more beautiful and easy installation.



## Easy Installation

### ► Double side 4 handles

Because of double side 4 handles design, it is very easy for 2 people carry it.



### ► "888" digital test panel

All running parameters & error code can be checked from "888" digital display, installer can make easy work.



# Duct



★★★



YR-E17



MODEL		Indoor unit		AD24SS1ERA(N)
		Outdoor unit		1U24GS1ERA
Nominal performance data	Capacity	Cooling	Btu/h (nominal)	24200
			TR (nominal)	2.0
			kW nor(min-max)	7.1(2-7.6)
		Heating	Btu/h (nor)	24200
			TR (nominal)	2.0
			kW nor(min-max)	7.1(3-8.3)
	Rated Power Input	Cooling	kW nom(min-max)	2.2
	Heating	kW nom(min-max)	1.9	
	ISEER	w/w	3.7	
	Star Rating		★★★	
	COP	w/w	3.72	
INDOOR UNIT				AD24SS1ERA(N)
Elec. parameters	Power Supply	Ph/V/Hz		1/220-230/50/60
Performance	Air Flow	cfm (H) @ 30 Pa		588
		m <sup>3</sup> /h (H/M/L) @ 30 Pa		1000/850/750
	ESP	Pa		0/10/20/30
	Sound Pressure Level (H/M/L)	dB (A)		38/35/33
Installation	External Dimensions (W/D/H)	mm		1170/420/185
	Shipping Dimensions (W/D/H)	mm		1365/540/270
	Net/Shipping Weight	kg		24/30
	Wired Controller		Standard	
	Wireless Controller		Optional	YR-HBS01
Panel	Panel Model			P1B-1210IA/D
	External Dimensions (W/D/H)	mm		1210/190/100(Supply Air Panel)/1210/290.5/32.4(Return Air Panel)
	Shipping Dimensions (W/D/H)	mm		1258/335/220
	Net/Shipping Weight	Kg		5/6
OUTDOOR UNIT				1U24GS1ERA
Elec. Parameters	Power Supply	Ph/V/Hz		1/220-230/50/60
Performance	Air Flow (H)	m <sup>3</sup> /h		3000
	Sound Pressure Level	dB(A)		53
Installation	External Dimensions (H/W/D)	mm		730/860/308
	Shipping Dimensions (H/W/D)	mm		815/995/420
	Net/shipping Weight	kg		49/52
	Compressor Type			Twin rotary
	Refrigerant Type			R410A
	Refrigerant Liquid Pipe	mm		9.52
	Refrigerant Gas Pipe	mm		15.88
	Max Pipe Length	m		30
	Max Drop Between I.U.&O.U	m		20
	Refrigerant Load In Factory	kg		1.6
Working temp.	Maximum Pipe Length Without Charge Refrigerant	m		7
	Refrigerant Charge Quantity For Extra Length	g/m		45
	Cooling (Min-max)	°C		-10-50
	Heating (Min-max)	°C		-15-24



YR-E17



MODEL		Indoor unit		ADH66H1ERG	ADH102H1ERG*
		Outdoor unit		1UH66P1ERK	1UH102W1ERK*
Nominal performance data	Capacity	Cooling	Btu/h (nominal)	66000	98000
			TR (nominal)	5.5	8.5
			kW nor(min-max)	18.5(3.5-18.5)	28.8
		Heating	Btu/h (nor)	66000	98000
			TR (nominal)	5.5	8.5
			kW nor(min-max)	18.5(3.5-18.5)	28.8
	Rated Power Input	Cooling	kW nom(min-max)	5.7	9.0
		Heating	kW nom(min-max)	5.4	9.0
	ISEER	w/w	3.51	3.41	
	Star Rating		/	/	
	COP	w/w	3.61	3.21	
INDOOR UNIT				ADH66H1ERG	ADH102H1ERG*
Elec. parameters	Power Supply	Ph/V/Hz	1/220-240/50/60		1/220-240/50/60
	Air Flow	cfm (H) @ 50 Pa	2120		2540
Performance	ESP	m <sup>3</sup> /h (H/M/L/SL) @ 50 Pa	3600/3100/2600/2100		5040/4500/3960/3600/5780/5140/4650/3900
		Pa	37/50/70/90/110		40/72/100/130/160/190
	Sound Power Level (H/M/L)	dB(A)	/130/150/170/190/210		/220/250/280/300Pa
	Sound Pressure Level (H/M/L)	dB(A)	64		69
Installation	External Dimensions (W/D/H)	mm	49/46/43/40		49/46/43/41
	Shipping Dimensions (W/D/H)	mm	1350/490/425		1330/895/500
	Net/Shipping Weight	kg	1565/724/510		1510/1037/568
	Wired Controller	Standard	61/72		99/115
	Wireless Controller	Optional	YR-E17		YR-E17
			YR-HBS01		YR-HBS01
OUTDOOR UNIT				1UH66P1ERK	1UH102W1ERK*
Elec. parameters	Power Supply	Ph/V/Hz	3/380-415/50/60		3/380-415/50/60
	Air Flow (H)	m <sup>3</sup> /h	7000		10000
Performance	Sound Power Level	dB(A)	70		78
	Sound Pressure Level	dB(A)	53		60
	External Dimensions (H/W/D)	mm	1350/950/370		1636/1050/400
Installation	Shipping Dimensions (H/W/D)	mm	1500/1090/480		1795/1150/510
	Net/Shipping Weight	kg	108/121		168/183
	Compressor Type		Twin Rotary		Scroll
	Refrigerant Type		R410A		R410A
	Refrigerant Liquid Pipe	mm	9.52		9.52
	Refrigerant Gas Pipe	mm	15.88		22.2
	Max Pipe Length	m	75		75
	Max Drop Between I.U.&O.U	m	30		30
	Refrigerant Load In Factory	kg	3.7		5.0
	Maximum Pipe Length Without Charge Refrigerant	m	30		30
	Refrigerant Charge Quantity For Extra Length	g/m	45		45
Working temp.	Cooling(Min-Max)	°C	-15-52		-15-52
	Heating(Min-Max)	°C	-20-24		-20-24







# FIXED-SPEED SERIES









25 Cassette

31 Tower

35 Duct

# Models Line-up

## COOLING ONLY

Type	Btu/h TR Power	Standard Controller	18000	24000	1/220~240/50
			1.5	2.0	
Cassette		YR-HBS01	 AB18FH2QAA	 AB24FH2QAA	<b>NEW</b>
			 1U18FH2QAA	 1U24FH2QAA	<b>NEW</b>
Tower		YR-HD			
Duct		YR-E20			

	40000	50000	60000	96000
	3.3	4.2	5.5	8.5
3/380-415/50				
	 AB40FH4QAA	 AB50FH4QAA		
	 1U40LH2QAB	 1U50LH4QAB		
		 AP48KS1ERA(S)		 AP96TN1QAA
		 1U48IS1QAB		 1U96TN1QAB
		 AD48HN2QAA	 AD60HN2QAA	 AD96HN1QAA
		 1U48LH2QAB	 1U60LH2QAB	 1U96TN1QAB



## Cassette

### High Efficiency

#### ► New heat exchanger design

The area of exchanger is enlarge to increase heating efficiency.



# Key Feature

## Stylish Design

### ► “Spiral ” panel

“Spiral” concept , “Haier” image .



### ► Flap is closed when air conditioner off

There is no crack from the flap and the panel when the air conditioner off. More elegance .



### ► Hidden LCD display

The 360° smart flow cassette have green hidden LCD display design for cooling.



### ► ABS material panel

ABS material makes the panel “piano white ” , different from “ dark white” PS material color. The panel and flap are the same material. After 10 years , the panel color won’ t change to yellow color because the ABS material prevents discoloration against light raying.



## Low Sound Level

### ► Super big inlet grille

Compared to conventional air inlet grill, we enlarge the air inlet area by 23%, lower air speed & lower the sound

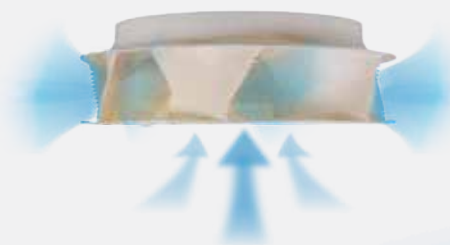


23%



### ► New designed fan

The diameter of new fan is enlarged based on acrodynamic theory, so that there is the least resistance against airflow. Reduce 3dB(A) for sound level.



# Key Feature

## Comfort Airflow

### ▶ Round way air supply

Round way air supply without blind spot.



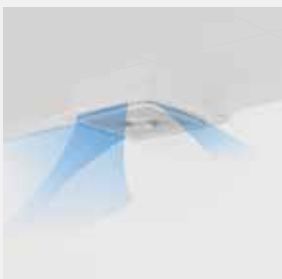
4 way airflow



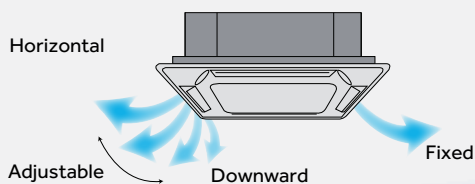
Unique round way air flow design

### ▶ Individual flap control

The four flaps can be controlled individually according to end users by controller, providing maximum comfort throughout the room, it is a good solution to avoid "air conditioning disease".



corner installation solution

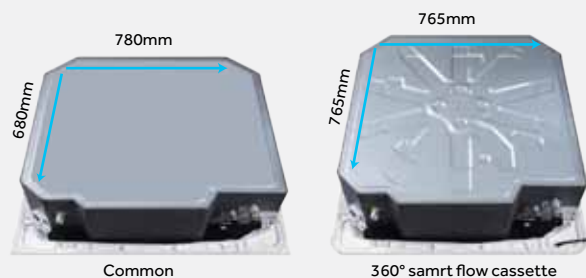


comfort solution

## Easy Installation

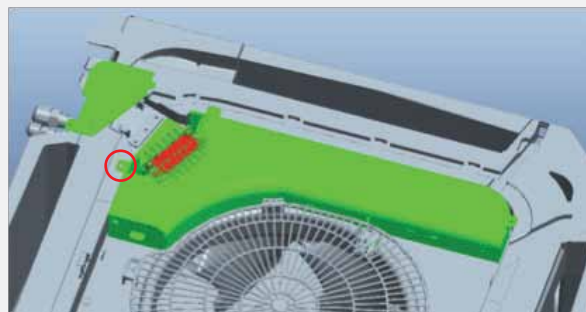
### ▶ Square hanger

Innovative square hanger, flexible direction adjustment, avoid second try installation.



### ▶ Undoing only one screw

Installer can finish wiring by undoing one screw.



### ▶ Convenient clip

There is clip to lock the panel. Just one installer can finish the screwing for panel. Save manpower and easy installation.



## Easy Installation

### High lift-up drain pump

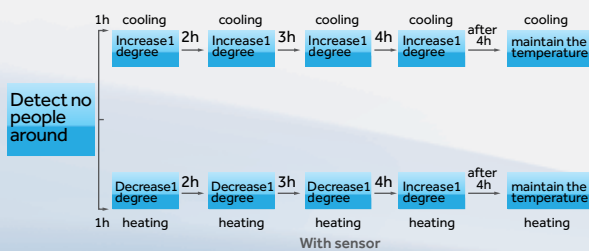
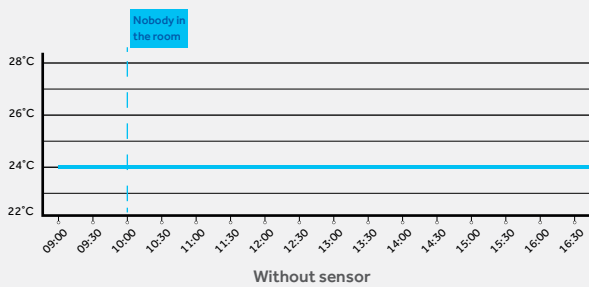
It can lift condensed water up to 1000mm, which is more flexible to install the duct according to the



## Move eye intelligent system (optional)

### Absence mode

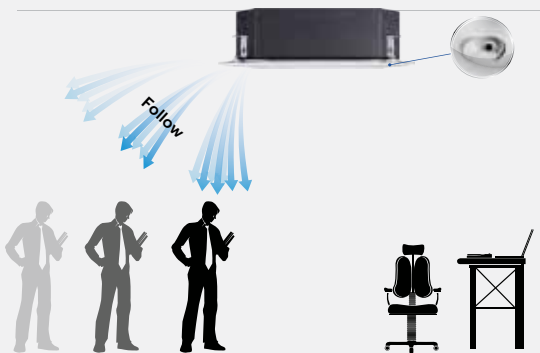
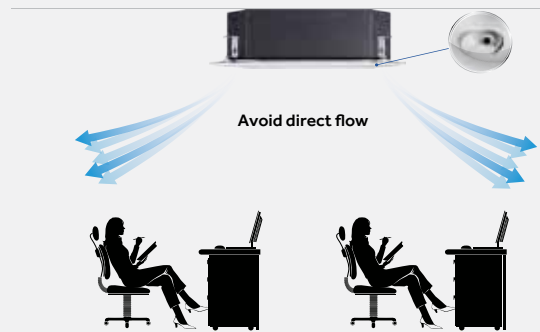
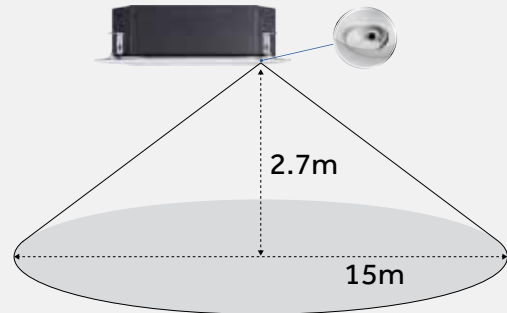
The presence sensor can check if there is end user in the room. Then change the setting degree if there is nobody in the room. Energy consumption will be reduced 27% (estimated).



## Move eye intelligent system (optional)

### Automatic airflow direction

The airflow will follow or evade the end user in accordance with end user choice on controller.





# Cassette



YR-HBS01



MODEL		Indoor unit	AB18FH2QAA	AB24FH2QAA
		Outdoor unit	1U18FH2QAA	1U24FH2QAA
Nominal performance data	Capacity	Btu/h(Nominal)	18000	25000
		TR(Nominal)	1.5	2.1
	Rated Power Input	Kw	5.28	7.3
		kW (nom.)	1.70	2.36
EER	W/W	3.1	3.1	
<b>INDOOR UNIT</b>			<b>AB18FH2QAA</b>	<b>AB24FH2QAA</b>
Elec. parameters	Power Supply	Ph/V/Hz	1/220-240/50	1/220-240/50
	Air Flow (H/M/L)	cfm(H)	705	753
Performance		m <sup>3</sup> /h(H/M/L/SL)	1200/1130/970/830	1280/1153/999/860
	Sound Pressure Level (H/M/L)	dB(A)	39/37/35/33	44/42/40/36
Installation	External Dimensions (W/D/H)	mm	840/840/204	840/840/204
	Shipping Dimensions (W/D/H)	mm	980/980/290	950/950/290
	Net/Shipping Weight	kg	25.3/31	25/30
	Controller	Standard	YR-HBS01	YR-HBS01
		Optional	YR-E20	YR-E20
Panel	Model		PB-950KB	PB-950KB
	External Dimensions (W/D/H)	mm	950/950/60	950/950/60
	Shipping Dimensions (W/D/H)	mm	1020/1020/130	1020/1020/130
	Net/Shipping Weight	kg	6.5/9	6.5/9
<b>OUTDOOR UNIT</b>			<b>1U18FH2QAA</b>	<b>1U24FH2QAA</b>
Elec. parameters	Power Supply	Ph/V/Hz	1/220-240/50	1/220-240/50
	Air Flow (H)	m <sup>3</sup> /h	2500	2500
Performance	Sound Pressure Level	dB (A)	53	54
	External Dimensions (W/D/H)	mm	810/340/680	870/355/685
Installation	Shipping Dimensions (W/D/H)	mm	940/400/760	1000/415/765
	Net/Shipping Weight	kg	50/54	53/57
	Compressor Type		Twin Rotary	Twin Rotary
	Refrigerant Type		R410A	R410a
	Refrigerant Liquid Pipe	mm	6.35	9.52
	Refrigerant Gas Pipe	mm	15.88	15.88
	Max Pipe Length	m	15	30
Max Drop Between I.U.&O.U	m	5	10	
Working temp.	Normal (Min-Max)		18-48	18-48



YR-HBS01



MODEL		Indoor unit	AB40FH4QAA	AB50FH4QAA
		Outdoor unit	1U40LH4QAB	1U50LH4QAB
Nominal performance data	Capacity	Btu/h(nominal)	40000	50000
		TR(nominal)	3.3	4.2
	Rated Power Input	Kw	11.7	14.66
		kW (nom.)	3.86	4.89
EER	W/W	3.03	3	
<b>INDOOR UNIT</b>			<b>AB40FH4QAA</b>	<b>AB50FH4QAA</b>
Elec. parameters	Power Supply	Ph/V/Hz	1/220-240/50	1/220-240/50
	Performance	Air Flow (H/M/L)	cfm(H)	1118
Sound Pressure Level (H/M/L)		m <sup>3</sup> /h(H/M/L/SL)	1900/1600/1350/1050	1900/1600/1350/1050
Installation	External Dimensions (W/D/H)	mm	840/840/288	840/840/288
		Shipping Dimensions (W/D/H)	mm	985/985/380
	Net/Shipping Weight	kg	36/41	36/41
	Controller	Standard	YR-HBS01	YR-HBS01
		Optional	YR-E20	YR-E20
Panel	Model		PB-950KB	PB-950KB
	External Dimensions (W/D/H)	mm	950/950/60	950/950/60
	Shipping dimensions (W/D/H)	mm	1020/1020/130	1020/1020/130
	Net/Shipping Weight	kg	6.5/9	6.5/9
<b>OUTDOOR UNIT</b>			<b>1U40LH4QAB</b>	<b>1U50LH4QAB</b>
Elec. parameters	Power Supply	Ph/V/Hz	3/380-415/50	3/380-415/50
	Performance	Air Flow (H)	m <sup>3</sup> /h	5500
Sound Pressure Level		dB(A)	61	61
Installation	External Dimensions (W/D/H)	mm	1070/485/830	1070/485/830
	Shipping Dimensions (W/D/H)	mm	1192/575/940	1192/575/940
	Net/Shipping Weight	kg	86/97	94/103
	Compressor Type		Twin Rotary	Scroll
	Refrigerant Type		R410A	R410A
	Refrigerant Liquid Pipe	mm	9.52	9.52
	Refrigerant Gas Pipe	mm	19.05	19.05
Working temp.	Max Pipe Length	m	40	40
	Max Drop Between I.U.&O.U	m	20	20
Working temp.	Normal (Min-Max)		18-48	18-48



## Tower

### Comfort

#### ► 15m Long distance airflow

According to the requirement of office room and large parlor, 15m long distance.

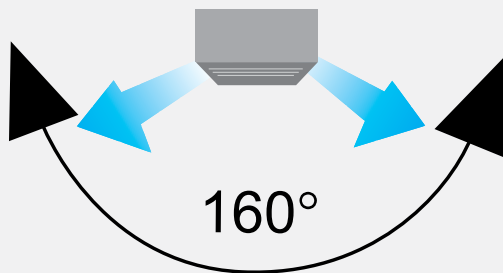


# Key Feature

## Comfort

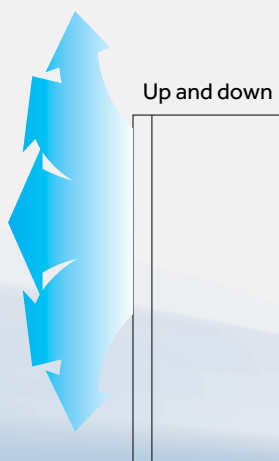
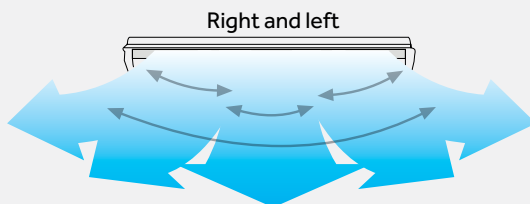
### Wide angle 160° air supply

Rounding 3-dimensional, 160 wide angle air sending, reach every corner of the room.



### 3D airflow

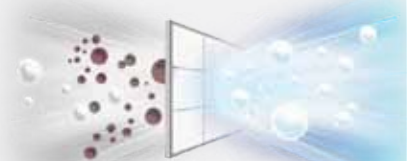
The cabinet type adopts two stepping motors to combines vertical and horizontal auto-swing to circulate cool/warm air to the every corner of the room.



## Health

### High efficiency air purify filter

High efficiency air purify filter effectively prevents the smaller dust articles, insects and other materials.



## Reliability

### Reliable protect

The system has many protect functions to achieve reliable running:High-pressure protection;Low-pressure protection;Phase protection;Over-current protection.



### Child lock

After you set this function, the working status can not be changed either by the remote controller or the touch screen, unless this setting is cancelled.



# Tower



YR-HD



MODEL		Indoor unit		AP48KS1ERA(S)	
		Outdoor unit		1U48IS1QAB	
Nominal performance data	Capacity	Btu/h(nom.)		48,000	
		TR (nom.)		4.0	
		kW (nom.)		14.0	
		kW (nom.)		5.1	
	Rated Power Input	kW (nom.)		5.1	
	EER	W/W		2.77	
<b>INDOOR UNIT</b>				<b>AP48KS1ERA(S)</b>	
Elec. parameters	Power Supply	Ph/V/Hz		1/220-240/50	
		cfm(H)		1030	
Performance	Air Flow (H/M/L)	m <sup>3</sup> /h		1750/1500/1350	
	Sound Pressure Level (H/M/L)	dB(A)		54/50/47	
Installation	External Dimensions (W/D/H)	mm		600/350/1850	
	Shipping Dimensions (W/D/H)	mm		660/420/1980	
	Net/Shipping Weight	kg		57/65	
	Controller	Standard		YR-HD	
<b>OUTDOOR UNIT</b>				<b>1U48IS1QAB</b>	
Elec. parameters	Power Supply	Ph/V/Hz		3/380-415/50	
		m <sup>3</sup> /h		6000	
Performance	Air Flow (H)	dB(A)		61	
	Sound Pressure Level	mm		960/340/1250	
Installation	External Dimensions (W/D/H)	mm		1095/410/1400	
	Shipping Dimensions (W/D/H)	kg		95/105	
	Net/Shipping Weight			Twin Rotary	
	Compressor Type			R410a	
	Refrigerant Type	mm		9.52	
	Refrigerant Liquid Pipe	mm		19.05	
	Refrigerant Gas Pipe	m		40	
Max Pipe Length	m		20		
Max Drop Between I.U.&O.U			10-48		
Working temp.	Normal (Min-Max)				



YR-HD



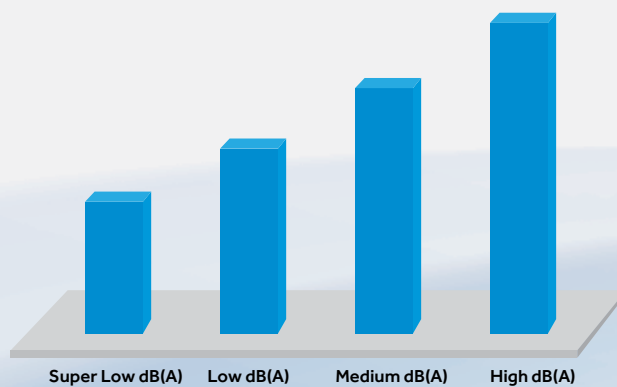
MODEL		Indoor unit		AP96TN1QAA	
		Outdoor unit		1U96TN1QAB	
Nominal performance data	Capacity	Btu/h(nom.)		96,000	
		TR (nom.)		8.0	
		kW (nom.)		28.1	
		Rated Power Input	kW (nom.)	10.4	
		EER	W/W	2.70	
<b>INDOOR UNIT</b>				<b>AP96TN1QAA</b>	
Elec. parameters	Power Supply	Ph/V/Hz		1/220-240/50	
		cfm(H)		2647	
Performance	Air Flow (H/M/L)	m <sup>3</sup> /h		4,500	
	Sound Pressure Level (H/M/L)	dB(A)		54	
Installation	External Dimensions (W/D/H)	mm		1210/325/1850	
	Shipping Dimensions (W/D/H)	mm		1350/550/2040	
	Net/Shipping Weight	kg		107/120	
	Controller	Standard		YR-HD	
<b>OUTDOOR UNIT</b>				<b>1U96TN1QAB</b>	
Elec. parameters	Power Supply	Ph/V/Hz		3/380-415/50	
		Air Flow (H)	m <sup>3</sup> /h	10000	
Performance	Sound Pressure Level	dB(A)		64	
		External Dimensions (W/D/H)	mm	990/750/1750	
Installation	Shipping Dimensions (W/D/H)	mm		1160/940/1950	
	Net/Shipping Weight	kg		230/245	
	Compressor Type			Scroll	
	Refrigerant Type			R410a	
	Refrigerant Liquid Pipe	mm		9.52*2	
	Refrigerant Gas Pipe	mm		19.05*2	
	Max Pipe Length	m		50	
Max Drop Between I.U.&O.U	m		30		
Working temp.	Normal (Min-Max)			18-48	



## Duct

### Four Speed Airflow

Four speed airflow to meet the requirement for silence in super low speed.



# Duct



YR-E20



MODEL		Indoor unit	AD48HN2QAA
		Outdoor unit	1U48LH2QAB
Nominal performance data	Capacity	Btu/h(nominal)	45000
		TR(nominal)	4.00
		Kw	13.10
	Rated Power Input	kW (nom.)	4.28
	EER	W/W	3.06
<b>INDOOR UNIT</b>			<b>AD48HN2QAA</b>
Elec. parameters	Power Supply	Ph/V/Hz	1/220-240/50
Performance	Air Flow	cfm (H) @ 50 Pa	1176
		m <sup>3</sup> /h (H/M/L/SL) @ 50 Pa	2100/1900/1680/1480
	External Static Pressure	Pa	100
	Sound Pressure Level (H/M/L)	dB(A)	49/47/46/45
Installation	External Dimensions (W/D/H)	mm	1197/830/360
	Shipping Dimensions (W/D/H)	mm	1378/938/405
	Net/Shipping Weight	kg	60/63
	Controller	Standard	YR-E20
		Optional	YR-HBS01
<b>OUTDOOR UNIT</b>			<b>1U48LH2QAB</b>
Elec. parameters	Power Supply	Ph/V/Hz	3/380-415/50
Performance	Air Flow (H)	m <sup>3</sup> /h	5500
	Sound Pressure Level	dB(A)	61
Installation	External Dimensions (W/D/H)	mm	1008/410/830
	Shipping Dimensions (W/D/H)	mm	1130/500/940
	Net/Shipping Weight	kg	84/93
	Compressor Type		Twin Rotary
	Refrigerant Type		R410a
	Refrigerant Liquid Pipe	mm	9.52
	Refrigerant Gas Pipe	mm	19.05
	Max Pipe Length	m	50
	Max Drop Between I.U.&O.U	m	20
Working temp.	Normal (Min-Max)		10-48



# Duct



YR-E20



MODEL		Indoor unit	AD60HN2QAA	
		Outdoor unit	1U60LH2QAB	
Nominal performance data	Capacity	Btu/h(Nominal)	66000	
		TR(Nominal)	5.50	
		Kw	19.30	
	Rated Power Input	kW (nom.)	6.41	
	EER	W/W	3.01	
<b>INDOOR UNIT</b>			<b>AD60HN2QAA</b>	
Elec. parameters	Power Supply	Ph/V/Hz	1/220~240/50	
	Air Flow	cfm (H) @ 50 Pa	1588	
Performance		m <sup>3</sup> /h (H/M/L/SL) @ 50 Pa	2700/2500/2200/2000	
	External Static Pressure	Pa	100	
	Sound Pressure Level (H/M/L)	dB(A)	51/49/46/44	
Installation	External Dimensions (W/D/H)	mm	1197/830/360	
	Shipping Dimensions (W/D/H)	mm	1378/938/405	
	Net/Shipping Weight	kg	62/65	
	Controller	Standard		YR-E20
		Optional		YR-HBS01
<b>OUTDOOR UNIT</b>			<b>1U60LH2QAB</b>	
Elec. parameters	Power Supply	Ph/V/Hz	3/380~415/50	
	Air Flow (H)	m <sup>3</sup> /h	5500	
Performance	Sound Pressure Level	dB(A)	61	
	External Dimensions (W/D/H)	mm	1008/410/830	
Installation	Shipping Dimensions (W/D/H)	mm	1130/500/940	
	Net/Shipping Weight	kg	93.5/102.5	
	Compressor Type		Scroll	
	Refrigerant Type		R410a	
	Refrigerant Liquid Pipe	mm	9.52	
	Refrigerant Gas Pipe	mm	19.05	
	Max Pipe Length	m	50	
Working temp.	Max Drop Between I.U.&O.U	m	20	
	Normal (Min-Max)		10~48	



YR-E20



MODEL		Indoor unit	AD96HN1QAA
		Outdoor unit	1U96TN1QAB
Nominal performance data	Capacity	Btu/h(Nominal)	96000
		TR(Nominal)	8.50
		Kw	28.10
	Rated Power Input	kW (nom.)	10.81
	EER	W/W	2.60
<b>INDOOR UNIT</b>			<b>AD96HN1QAA</b>
Elec. parameters	Power Supply	Ph/V/Hz	1/220~240/50
Performance	Air Flow	cfm (H) @ 50 Pa	2382
		m <sup>3</sup> /h (H/M/L/SL) @ 50 Pa	4050/3700/3210/2850
	External Static Pressure	Pa	100
	Sound Pressure Level (H/M/L)	dB(A)	54
Installation	External Dimensions (W/D/H)	mm	1570/830/360
	Shipping Dimensions (W/D/H)	mm	1820/940/530
	Net/Shipping Weight	kg	107/115
	Controller	Standard	YR-E20
	Option		YR-HBS01
<b>OUTDOOR UNIT</b>			<b>1U96TN1QAB</b>
Elec. parameters	Power Supply	Ph/V/Hz	3/380~415/50
Performance	Air Flow (H)	m <sup>3</sup> /h	10000
	Sound Pressure Level	dB(A)	64
Installation	External Dimensions (W/D/H)	mm	990/750/1750
	Shipping Dimensions (W/D/H)	mm	1160/940/1950
	Net/Shipping Weight	kg	230/245
	Compressor Type		Scroll
	Refrigerant Type		R410a
	Refrigerant Liquid Pipe	mm	9.52*2
	Refrigerant Gas Pipe	mm	19.05*2
	Max Pipe Length	m	50
	Max Drop Between I.U.&O.U	m	30
Working temp.	Normal (Min-Max)		10~48















# MULTI SPLIT

- 41 Models Line-up
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- 50 Slim Low Pressure Duct

# Models Line-up

Indoor unit series	12000 Btu/h		
<p><b>Wall mounted</b></p> 		<p>AS12NS1HRA-WU</p> 	
<p><b>4-way cassette</b></p> 		<p>AB12CS1ERA(S)</p> 	
<p><b>Slim low pressure duct</b></p> 		<p>AD12SS1ERA(N)</p> 	
Outdoor unit series		24000 Btu/h - 6.8 kW	
		<p>180° sine wave DC inverter</p>  <p>3U24GS1ERA(N) 1:3</p>	

18000 Btu/h

24000 Btu/h

AS18NS1HRA-WU



AS24NS1HRA-WU



AB18CS1ERA(S)



AB24ES1ERA(S)



AD18SS1ERA(N)



AD24SS1ERA(N)



34000 Btu/h - 10 kW

45000 Btu/h - 12.2 kW

180° sine wave  
DC inverter



5U34HS1ERA  
1:5

180° sine wave  
DC inverter

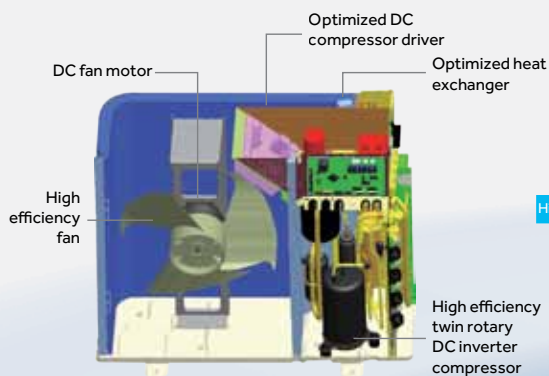


5U45LS1ERA  
1:5



## Multi Split

### High Efficiency



Capacity	ISEER
2.0 TR	5.30
3.0 TR	4.70
3.5 TR	4.30

# Key Feature

## High Reliability

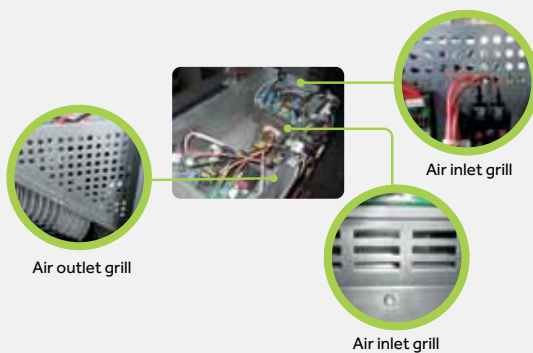
### Oil return

For 1:3 to 1:5 outdoor unit models, Haier multi split outdoor unit system(3U19~5U45) takes oil separator design, compressor oil come back to compressor in time, so compressor running with oil, lower compressor wear possibility, boost



### Electrical box ventilation

Electrical box design: reserved air path (1:3~1:5) good for ventilation, working temperature of electric box can be sufficiently reduced, lower electrical component malfunction rate, boost



### Control

High voltage communication wire guarantee the control not to be interfered by electromagnetic wave, boost control reliability.



## User Friendly

### Easy control

The universal wireless controller for high wall, console, cassette, convertible, duct can be used for everyone easily.

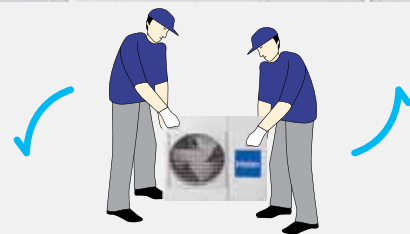
Separate cool, heat, dry, quiet buttons easy to use!



## Easy Installation

### Easy carry

In summer night the sound level can be reduced by PCB setting, lower sound level 3 dB (setting by installer on site).



### Easy vacuum & charging

Vacuum and charging every indoor unit just one time from general stop valve (1:4 to 1:5 outdoor unit).



General stop valve



# Key Feature

## Easy Installation

### ▶ One screw maintenance panel

New maintenance panel is fixed on the side panel, installer only take down the maintenance panel by take down only one screw, then to check the compressor running frequency and error code from the double 8 screen.



One screw to take down the Maintenance panel

### ▶ Easy start up & maintenance

Check valve(3U) or general stop valve (4U-5U) can be used in high/low pressure test in same mode, easy to start up and maintenance.

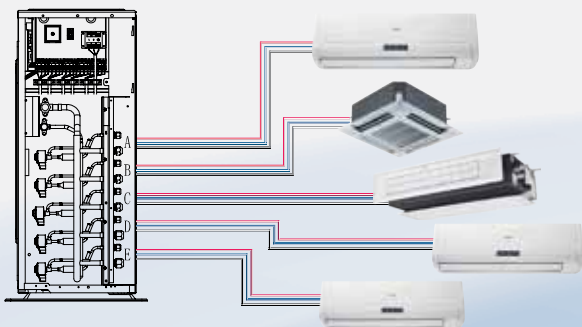


### ▶ Easy wiring

Wiring solution: Parallel connection, easy wiring.

Note: Red wire=power wire; Blue wire=communication wire;

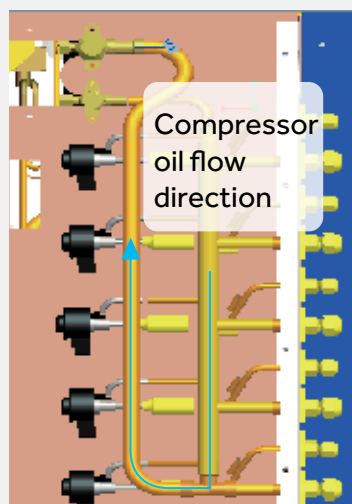
Black wire=pipe.



## Easy Installation

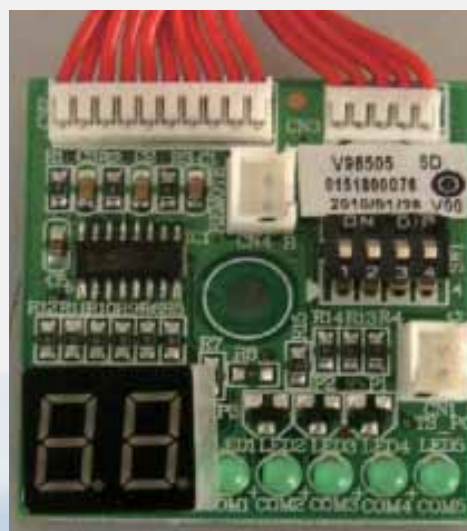
### ▶ Easy piping

The piping from outdoor unit do not need to follow from bottom to top in new 5U45LS1ERA, become very flexible, because the new piping design make compressor oil go back to compressor by compressor power and gravity.



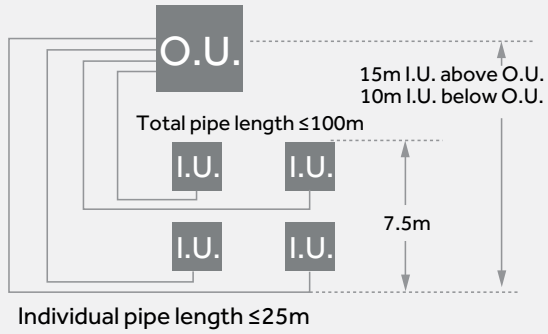
### ▶ Service screen

In start up & maintenance, the service screen will show the failure code for easy understand to the problem.



## Wider Application

### Wider installation

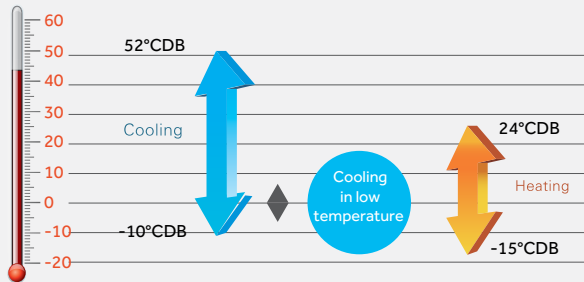


### Wider range operation

Wider range operation of outside temperature

Cooling: from  $-10^{\circ}\text{C}$  to  $52^{\circ}\text{C}$

Heating: from  $-15^{\circ}\text{C}$  to  $24^{\circ}\text{C}$



### Wider voltage range

Working voltage:  $208\text{V}\sim 240\text{V}$

The system is more tolerance in unstable voltage conditions.



# Outdoor Models



3U24GS1ERA(N)



5U34HS1ERA



5U45LS1ERA



Model/Outdoor unit			3U24GS1ERA(N)	5U34HS1ERA	5U45LS1ERA	
Maximum connected quantity of indoor units			3	5	5	
Nominal performance data	Capacity	Cooling	Btu/h (nor)	22850	34100	41600
			TR	2.0	3.0	3.5
			kW nor(min-max)	1.5/6.7/8.2	1.5/10/11	1.5/12.2/13.4
		Heating	Btu/h (nor)	27300	36500	43300
			kW nor(min-max)	1.8/8.0/9.0	1.8/10.7/11.5	1.8/12.7/14.0
			Rated Power Input	Cooling	kW nom(min-max)	0.55/1.68/3.1
	Heating	kW nom(min-max)	0.55/1.83/3.1	0.55/2.68/4.0	0.55/3.25/5.5	
	ISEER		5.3	4.7	4.3	
COP		4.38	4.0	3.9		
<b>OUTDOOR UNIT</b>						
Electrical parameters	Power Supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	
Performance	Air Flow (H/M/L)	m <sup>3</sup> /h	2500	4000	4200	
	Sound Power Level (H/M/L)	dB(A)	67	70	71	
	Sound Pressure Level (H/M/L)	dB(A)	54	58	60	
Installation	External Dimensions (W/D/H)	mm	860/308/730	948/340/840	1008/447/830	
	Shipping Dimensions (W/D/H)	mm	1005/423/815	1040/430/1000	1130/490/1000	
	Net/Shipping Weight	kg	53/56	77/88	90/101	
	Compressor Type		Twin Rotary	Twin Rotary	Twin Rotary	
	Refrigerant Type		R410A	R410A	R410A	
	Refrigerant Liquid Pipe	mm	3×6.35	5×6.35	5×6.35	
	Refrigerant Gas Pipe	mm	3×9.52	4×9.52+1×12.7	3×9.52+2×12.7	
	Total Pipe Length (Max)	m	60	80	100	
	Single Pipe Length (Max)	m	25	25	25	
	Max Drop Between I.U.&O.U	m	15	15	15	
	Max Drop Between I.U.&I.U	m	5	5	5	
	Refrigerant Load In Factory	kg	1.9	3.4	3.2	
	Maximum Pipe Length Without Charge Refrigerant	m	30	40	40	
	Refrigerant Charge Quantity For Extra Length	g/m	20	20	28	
Working temp.	Cooling (Min-Max)	°C	-10-52	-10-52	-10-52	
	Heating (Min-Max)	°C	-15-24	-15-24	-15-24	

# Wall Mounted



YR-HBS01



- Super quiet 22dB(A)
- Nano-aqua
- 3D airflow
- Long distance air supplying
- A-PAM inverter technology

Model/indoor unit			AS12NS1HRA-WU	AS18NS1HRA-WU	AS24NS1HRA-WU
Capacity	Nominal Cooling	Btu/h	12290	17740	23890
		TR	1.0	1.5	2.0
		kW nominal (min-max)	3.6(1.00-4.20)	5.2(1.30-6.80)	7.0(2.20-8.50)
	Nominal Heating	Btu/h	12630(4780-13990)	19790(5460-20480)	25600(8530-26620)
		TR	1.0	1.5	2.0
		kW nominal (min-max)	3.7(1.100-5.40)	5.8(1.40-6.90)	7.5(2.40-9.80)
Electrical parameters	Power Supply	Ph/V/Hz	1-230-50	1-230-50	1-230-50
Performance	Air Flow (H/M/L)	m <sup>3</sup> /h	650	900	1200
	Sound Power Level Cooling (Hi)	dB(A)	54	57	62
	Sound Pressure Level Cooling (Hi/Mid/Lo/So)	dB(A)	40/35/31/22	47/43/37/30	47/43/37/35
Installation	External Dimensions(W/D/H)	mm	855X204X280	997x235x322	1115x248x336
	Shipping Dimensions(W/D/H)	mm	954×279×355	1085×329×403	1205x341x416
	Net/Shipping Weight	kg	10/12.2	13/16	16/19.6
	Refrigerant Liquid Pipe	mm	6.35	9.52	9.52
	Refrigerant Gas Pipe	mm	9.52	15.88	15.88
	Wireless Controller	standard	YR-HBS01	YR-HBS01	YR-HBS01

# Cassette



12,18K

- 700x700mm new panel design
- Pre-set fresh air inlet
- Built-in high head drain pump
- Quiet operation



YR-HD



24K

- Compact design
- Pre-set Fresh air inlet
- Built-in high head drain pump
- Reserve branch outlet

Model/ Standard Indoor unit		drain pump excluded	AB12CS1ERA(S)	AB18CS1ERA(S)	AB24ES1ERA(S)
Capacity	Nominal Cooling	Btu/h	12000	17000	22200
		TR	1.0	1.5	2.0
		kW nor. (min-max)	3.50(0.9~4.5)	5(1.8~5.8)	7.1(2~7.3)
	Nominal Heating	Btu/h	12600	18800	24300
		TR	1.0	1.5	2
		kW nor. (min-max)	3.7(1~4.8)	5.2(2~6.5)	7.1(2.5~8)
Electrical parameters	Power Supply	Ph/V/Hz	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60
Performance	Air Flow (H/M/L)	m <sup>3</sup> /h	620/520/450	700/620/500	1300/1100/870
	Sound Power Level (H/M/L)	dB(A)	50/46/42	55/50/47	59/57/52
	Sound Pressure Level (H/M/L)	dB(A)	40/36/32	42/37/35	46/44/39
Installation	External Dimensions (W/D/H)	mm	570/570/260	570/570/260	840/840/240
	Shipping Dimensions (W/D/H)	mm	718/680/380	718/680/380	930/930/330
	Net/Shipping Weight	kg	18.5/22	18.5/22	25.5/30.5
	Refrigerant Liquid Pipe	mm	6.35	6.35	9.52
	Refrigerant Gas Pipe	mm	9.52	12.7	15.88
	Wireless Controller	Standard	YR-HD	YR-HD	YR-HD
	Wired Controller	Optional	YR-E17	YR-E17	YR-E17
Panel	Model		PB-700IB	PB-700IB	PB-950JB
	External Dimensions (W/D/H)	mm	700/700/60	700/700/60	950/950/60
	Shipping Dimensions (W/D/H)	mm	740/750/115	740/750/115	985/985/115
	Net/Shipping Weight	kg	2.8/4.8	2.8/4.8	6.0/7.5

# Slim Low Pressure Duct



YR-E17



- DC fan motor
- New design 3D air flow air grille
- Super slim design, only 185mm
- Reserved fresh air inlet
- Built-in high head drain pump

Model/ Standard Indoor unit	Drian Pump Excluded		AD12SS1ERA(N)	AD18SS1ERA(N)	AD24SS1ERA(N)
Capacity	Nominal Cooling	Btu/h (Nor.)	12000	17000	24200
		TR	1.0	1.5	2.0
		kW Nominal (min-max)	3.50 (0.9-4.5)	5.0 (1.8-6.0)	7.1 (2-7.6)
	Nominal Heating	Btu/h (Nor.)	13650	18800	24200
		TR	1.0	1.5	2.0
		kW Nominal (min-max)	4.00 (1-4.8)	5.5 (2-6.2)	7.1 (3-8.3)
Electrical parameters	Power Supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60
Performance	Air Flow (H/M/L)	m <sup>3</sup> /h	600/480/420	900/750/600	1000/850/750
	External Static Pressure	Pa	0/10/20/30	0/10/20/30	0/10/20/30
	Sound Power Level (H/M/L)	dB(A)	52	54	57
	Sound Pressure Level (H/M/L)	dB(A)	33/28/25	36/34/32	38/35/33
	External Dimensions (W/D/H)	mm	850/420/185	1170/420/185	1170/420/185
Installation	Shipping Dimensions (W/D/H)	mm	1045/540/270	1365/540/270	1365/540/270
	Net/Shipping Weight	kg	16/21	22/28	24/30
	Refrigerant Liquid Pipe	mm	6.35	6.35	9.52
	Refrigerant Gas Pipe	mm	9.52	12.7	15.88
	Wide Controller	Standard	YR-E17	YR-E17	YR-E17
	Wireless Controller	Optional	YR-HD	YR-HD	YR-HD
	Wireless reciver	Optional	RE-02	RE-02	RE-02
Panel	Panel Model		P1B-890IA/D	P1B-1210IA/D	PiB-1210IA/D
	External dimensions (W/D/H)	mm	890/190/100 Outlet panel 890/290.5/32.4 Inlet panel	1210/190/100 Outlet panel 1210/290.5/32.4 Inlet panel	1210/190/100 Outlet panel 1210/290.5/32.4 Inlet panel
	Shipping dimensions (W/D/H)	mm	938/335/220	1298/335/220	1298/335/220
	Net/Shipping weight	kg	4/5	5/6	5/6

# Reference Projects

Country: India



State Bank of India

City: N. E. Region  
Type of Application: Office  
Project Name: State Bank of India  
Product: High Static Ductable , Cassette, Tower, Split  
Total Capacity: 12000 TR  
Installation Date: 2011-2015



City: Rangya  
Type of Application: Office (Auditorium)  
Project Name: N.F. Railway  
Product: High Static Ductable  
Total Capacity: 45 TR Ductable  
Area : 6000 Sq. ft.  
Installation Date: 2014

Country: India



City: Guwahati  
Type of Application: Office (Auditorium)  
Project Name: Jyoti Chitraban Film Studio  
Product: Tower (Cabinet)  
Total Capacity: 32 TR Tower  
Area : 6300 Sq. ft.  
Installation Date: 2014



City: Sivasagar  
Type of Application: Office (Auditorium)  
Project Name: Oil & Natural Gas Corporation Ltd.  
Product: High Static Ductable  
Total Capacity: 40.5 TR Ductable  
Area : 4200 Sq. ft.  
Installation Date: 2014



# Reference Projects

Country: India



City: Guwahati  
Type of Application: Office  
Project Name: Control Room of Assam Electricity Grid Corporation Ltd.  
Product: High Static Ductable  
Total Capacity: 45 TR Ductable  
Area : 3500 Sq. ft.  
Installation Date: 2014



City: New Delhi  
Type Of Application: Office  
Project Name: China Embassy  
Total Capacity: 144 HP

Country: India



City: Jorhat  
Type of Application: Retail  
Project Name: Big Bazar Store  
Product: High Static Ductable  
Total Capacity: 125 TR  
Area : 22000 Sq. ft.  
Installation Date: 2012



City: Mangaldoi  
Type of Application: Entertainment  
Project Name: Dream Theatre  
Product: High Static Ductable  
Total Capacity: 63 TR Ductable  
Area : 7000 Sq. ft.  
Installation Date: 2015

# Reference Projects

Country: India



City: Dimapur  
Type of Application: Entertainment  
Project Name: Hill Star Cinema Hall  
Product: 8.0 TR Cabinet (Tower)  
Total Capacity: 48 TR Cabinet  
Area : 6500 Sq. ft.  
Installation Date: 2015



City: Guwahati  
Type of Application: Education (Auditorium)  
Project Name: College of Veterinary Science Assam Agricultural University, Khanapara, Guwahati – 781022  
Product: High Static Ductable  
Total Capacity: 55 TR Ductable  
Area : 6300 Sq. ft.  
Installation Date: 2012

Country: India



City: Agartala  
Type of Application: Education  
Project Name: Agartala Government Medical College  
Product: High Static Ductable  
Total Capacity: 47.5 TR Ductable  
Area : 5400 Sq. ft.  
Installation Date: 2015



City: Agartala  
Type of Application: Education  
Project Name: Tripura Medical College  
Product: 4.0 TR Cabinet (Tower)  
Total Capacity: 80 TR Cabinet  
Area : 9500 Sq. ft.  
Installation Date: 2015

# Reference Projects

Country: India



City: Ghaziabad  
Type of Application: Education  
Project Name: Delhi Public School  
Total Capacity: 270 TR



City: Noida  
Type of Application: Factory  
Project Name: Transsion  
Total Capacity: 260 TR

Country: India



City: Dimapur  
Type of Application: Church  
Project Name: Sumi Baptist Church  
Product: High Static Ductable  
Total Capacity: 123 TR Ductable  
Area : 17000 Sq. ft.  
Installation Date: 2012



City: Mumbai  
Type Of Application: Airport  
Project Name: Mumbai Airport (T2)  
Product: Cassette & Ductable  
Total Capacity: 240 HP  
Installation Date: 2015