

# Smart Power High Static Ducted



**Haier**





## Haier Brand Story

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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, organised or enjoyable.

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

Be part of the Haier Network, and create new possibilities.

## ENERGY



Demand Response Enabling Device. It provides a method by which a power supply company limit the amount of power that a appliance will consume. The aim is to reduce peak demand to the power supply network at critical peak load times.



DC inverter A-PAM inverter 180° sine wave inverter technology will reduce vibration and noise at low compressor frequency, when compared to a standard inverter system.



Latest technology DC motor adopted instead of AC motors. DC motor requires reduced power to operate versus a typical AC motor. Built-in microprocessor allows for programmability and better control.



On/Off control card can be managed by a simple on/off device such as a hotel card system



Minimum Energy Performance Standards (MEPS)  
Conforms to Australian and New Zealand standard AS/NZS3823.2.2013

## ICON LEGEND

### COMFORT



Built-in microprocessor automatically detects room temperature and determines operation mode either heating or cooling.



Control via with smart phone or tablet which can connect to the Internet



Adoption of DC fan motor permits 4 fan speed control by the user.



Temperature requirement shift during sleep, as we remain inactive. The system will adjust temperature and noise for a more comfort during sleep.



Dry Mode concentrates on RH% humidity reduction and less on temperature.

## TECHNOLOGY



Connection of more than one indoor unit so they can operate as a group.



Connection to a accessory central control device to allow independent operation of more than one device at a central location.



Built in timer



Prevent unauthorised operation



Self diagnosis function. In the event of failure a error code will be displayed.

## RELIABILITY



Outdoor unit designed for heating operation down to - 20 °C



Outdoor Unit designed for cooling operation down to - 15 °C



The heat exchanger aluminium fin stock has a Hydrophilic coating for its anti- corrosion properties and its low surface tension, which enables water droplets to flow off the surface better than standard Aluminium fin.



Designed for both 50 and 60Hz power supply.



Allows the system pressures to balance before attempting start of the compressor, to prevent damage and excessive power consumption.



Auto restart after power failure, in the event of a power outage.

## CONVENIENCE



Pipe connection inside cabinet for a smooth exterior



Condensate connection (gravity drain) has two connections. A safety pan is supplied fitted to the indoor unit

# Haier AC Milestones



## 30 Years Providing Better Air Solution

A history of bringing valued products to market around the world

1984

Haier group was founded in Qingdao, China



1985

Qingdao Qingkong air conditioner factory established.

Haier manufactures China's 1st split air conditioner



1993

Haier introduces China's first inverter air conditioner



1994

Haier receives ISO 9001 certification

Haier exports its first air conditioners to Europe



1996

Haier introduces full range light commercial air conditioning solution



1998

Haier introduces the first DC inverter air conditioner in China



1999

Haier begins export of air conditioners to the United States and reaches #1 brand status for Room and Portable Air Conditioners in 2005



2001

Haier builds up industry park in Pakistan and catches No.1 market share in 2005



2002

Haier adds portable air conditioner to the US



2006

Haier releases R410a DC inverter VRF system



Haier releases centrifugal chiller with maglev technology



2007

Haier achieves the bid of 20 projects of Beijing Olympic Games



2011

Haier introduces full range of Super match solution covering on-off and inverter models as well as mono and multi system



Super match

2014

Haier establish AC R&D center to enhance the R&D ability with more focus on user's experience



2015

Haier build up the world's most advanced intelligent factory



2016

Haier launches Smart Power high efficiency air conditioning system



2002

2006

2007

2011

2014

2015

2016



# SMART POWER

HIGH STATIC DUCTED





- Key feature
- Specifications
- Drawings
- Control systems



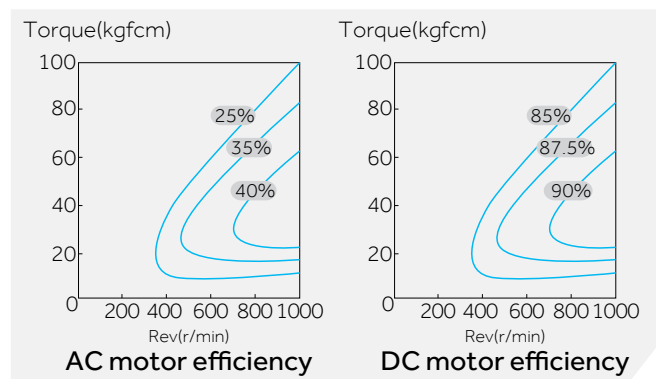
## Design

The 10.5 - 16kW indoor unit design was optimised to ensure the compact indoor unit was kept to a maximum of only 550mm. Ideal for 600mm truss spacing of a normal house.



## DC Fan Motor

In most cases a DC motor uses less energy than a standard AC motor. A DC motor allows for better airflow fine tuning, having more speed options, allowing for easier commissioning.



## Safety Drain Tray Built In

The 10.5 to 16 kW indoor unit is designed to incorporate two drain trays for condensate removal. The secondary tray is a backup in case the first one overflows due to a blockage.







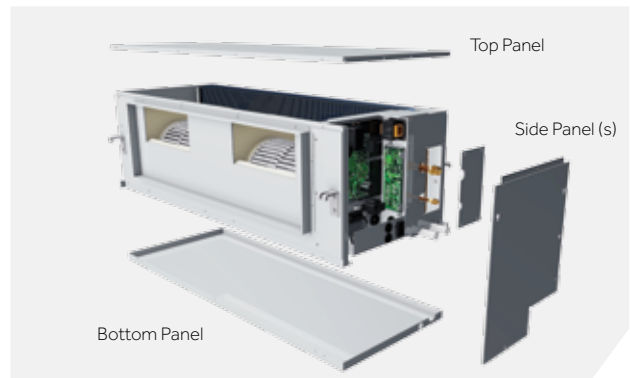
## Handles for easier transporting

Four handles are designed into each outdoor unit to allow for two people to carry.



## Serviceability

Top, bottom or side panels are removable for servicing and installation (10,5 - 16 kW)



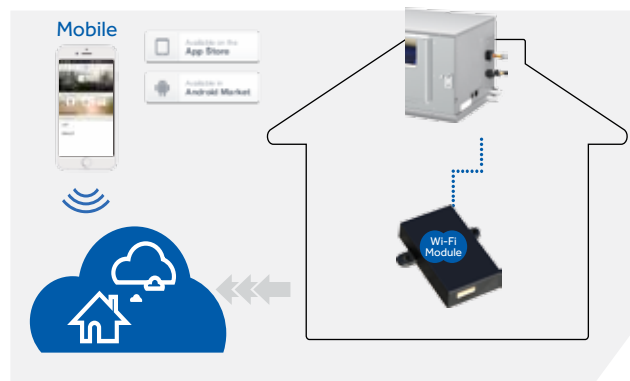
## Corrosion protection

Haier evaporator adopts new generation blue aluminium fin which specializes in strong corrosion resistance and super hydrophilic performance.



## Wi-Fi

The Wi-Fi module (KZW-W001 purchased separately) can connect to the internet via your Wi-Fi router. The Haier smart Air 2 APP available free for apple or android devices.



## Low Sound Level

Lower sound level can be achieved by an industry leading 550 mm fan and unique outlet grille. The new grille design offers less resistance to airflow and the larger fan can deliver 16.7% airflow increase.



# HIGH STATIC DUCTED

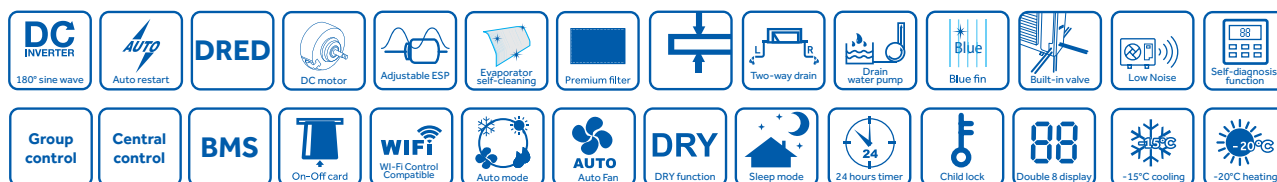
 **ADH071M3ERG**



YR-E17



7.1kW



Model			Indoor unit	ADH071M3ERG
			Outdoor unit	1UH071N1ERG
Nominal performance data	Capacity	Cooling	kW Nom (min~max)	7.1 (2.0~9.0)
		Heating	kW Nom (min~max)	8.0 (2.0~10.0)
	Rated power input	Cooling	kW Nom (min~max)	2.03 (0.4~4.0)
		Heating	kW Nom (min~max)	2.0 (0.4~4.0)
	EER			3.5
	COP			4.0
Indoor Unit				
Electrical	Power supply		Ph/V/Hz	1/220-240/50/60
Performance	Air flow (H/M/L)		m3/h	1450/1200/950/700
			L/S	402/333/263/194
	External Static Pressure		pa	25-150
	Sound power level (H/M/L)		dB(A)	58
Installation	Sound pressure level (H/M/L)		dB(A)	38/35/32/29
	External dimensions (WxDxH)		mm	957x655x250
	Shipping dimensions (WxDxH)		mm	1170x860x340
	Net/Shipping weight		kg	31.2/36.8
	Supply air Flange		mm	145x800
	Return Air Flange		mm	235x851
	Wired Controller		Standard	YR-E17
Optional			YR-E16A (7 day time clock)	
Outdoor Unit				
Electrical Parameters	Power supply		Ph/V/Hz	1/220-240/50
	Rated Amps	Cooling	Amp	8.8
		Heating	Amp	9.2
	Maximum Amps	Cooling	Amp	17.5
		Heating	Amp	17.5
Performance	Air flow (H)		m3/h	3200
	Sound power level		dB(A)	64
	Sound pressure level		dB(A)	47
Installation	External dimensions (HxWxD)		mm	965x950x370
	Shipping dimensions (HxWxD)		mm	1095x1050x450
	Net/Shipping weight		kg	80/92
	Compressor type			Twin rotary
	Refrigerant type			R410A
	Refrigerant liquid pipe		mm	9.52
	Refrigerant gas pipe		mm	15.88
	Max pipe length		m	50
	Max height between I.U.&O.U		m	30
	Refrigerant pre-charged		kg	2.5
	Pre-charged line length		m	20
	Additional gas charge		g/m	45
Working temp.	Cooling (Min-Max)		°C	-15 to +50
	Heating (Min-Max)		°C	-20 to +24

# HIGH STATIC DUCTED

ADH105H1ERG ADH125H1ERG ADH140H1ERG ADH160H1ERG



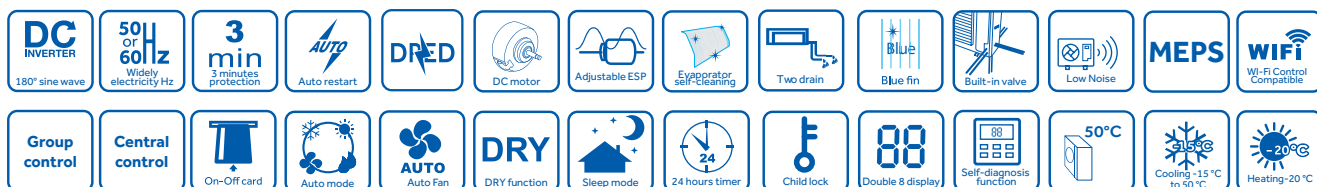
Outdoor Unit  
1U105N1ERG



Outdoor Unit  
1U125P1ERG  
1U140P1ERG  
1U160P1ERG



YR-E17

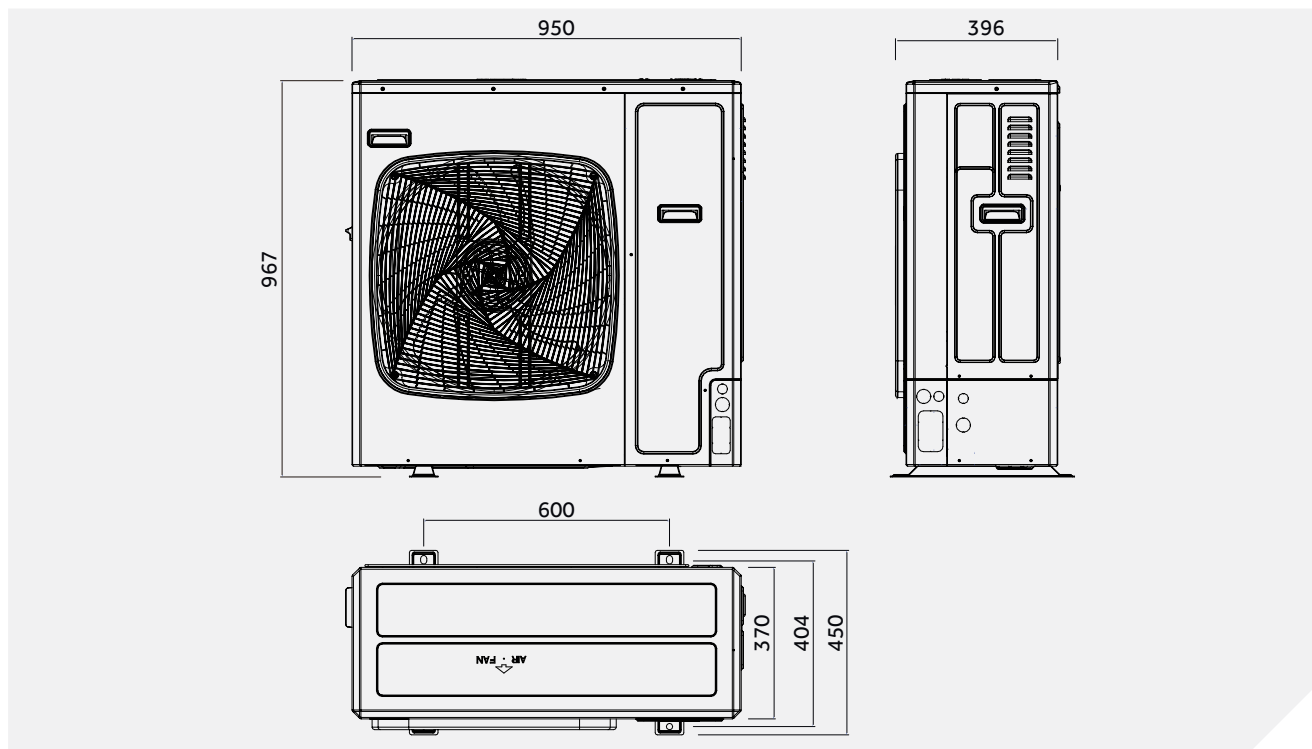


Model			Indoor unit	ADH105H1ERG	ADH125H1ERG	ADH140H1ERG	ADH160H1ERG
			Outdoor unit	1UH105N1ERG	1UH125P1ERG	1UH140P1ERG	1UH160P1ERG
Nominal performance data	Rated capacity	Cooling	kW nom (min-max)	10.5 (2.5~11.0)	12.5 (3.5 ~ 15.0)	14 (3.5 ~ 15.0)	15.5 (3.5-17.5)
		Heating	kW nom (min-max)	11.5 (2.5 ~ 12)	14 (4.0 ~ 18)	16 (6.0 ~ 19.0)	18.0 (6.0-20.0)
	Rated power input	Cooling	kW nom (min-max)	3.00 (0.5 ~ 5.3)	3.57 (1.0 ~ 6.5)	4.11 (2.0 ~ 7.2)	4.83 (2.0-7.2)
		Heating	kW nom (min-max)	3.10 (0.5 ~ 5.3)	3.88 (1.0 ~ 6.5)	4.40 (2.0 ~ 7.2)	5.13 (2.0-7.2)
	EER			3.5	3.5	3.4	3.21
	COP			3.7	3.6	3.6	3.5
Indoor Unit							
Electrical Parameters	Power supply		Ph/V/Hz	1/230/50/60			
	Power Input		Watt	540	550	600	600
Performance	Air flow (H/M/L/LL)		m3/h	2880/2380/1880/1380	3250/2750/2250/1850	3600/3100/2600/2100	4000/3400/2800/2200
			l/s	800/660/520/380	900/760/620/510	1000/860/720/580	1115/945/780/615
	ESP		pa	37-210			
	Sound pressure level (H/M/L)		dB (A)	45/41/37/33	47/44/42/39	49/46/43/40	51/47/44/40
Installation	External dimensions (W/D/H)		mm	1350/490/425			
	Shipping dimensions (W/D/H)		mm	1565/725/510			
	Net/Shipping weight		kg	59/70	61/72	61/72	61/72
	Supply Air Flange		mm	306 x 1046			
	Return Air Flange		mm	353 x 1164			
	Wired Controller		Standard	YR-E17			
	Wireless Controller		optional	YR-HBS01/RE-02			
Outdoor Unit							
Electrical Parameters	Power supply		Ph/V/Hz	1/230/50			
	Rated Amps	Cooling	Amp	13.3	16.5	18.5	21
		Heating	Amp	13.7	17.5	19.8	21.5
	Maximum Amps	Cooling	Amp	23.2	30	32	32
		Heating	Amp	23.2	30	32	32
Performance	Air flow (H)		m3/h	4000	6500	7000	7500
	Sound power level		dB (A)	68	69	70	73
	Sound pressure level		dB (A)	52	52	53	54
Installation	External dimensions (H/W/D)		mm	965/950/370	1350/950/370		
	Shipping dimensions (H/W/D)		mm	1095/1050/450	1500/1090/480		
	Net/Shipping weight		kg	82/94	105/118	108/121	105/118
	Compressor type			Twin rotary			
	Refrigerant type			R410A			
	Refrigerant liquid pipe		mm	9.52			
	Refrigerant gas pipe		mm	15.88			
	Max pipe length		m	50	75		
	Max drop between I.U.&O.U		m	30			
	Pre Charge of refrigerant		kg	2.5	3.7	3.7	3.7
	Pre-charged line length		m	20	30	30	30
Additional gas charge		g/m	45	45	45	45	
Working Temperature	Cooling (Min-Max)		°C	-15 ~ +50			
	Heating (Min-Max)		°C	-20 ~ +24			

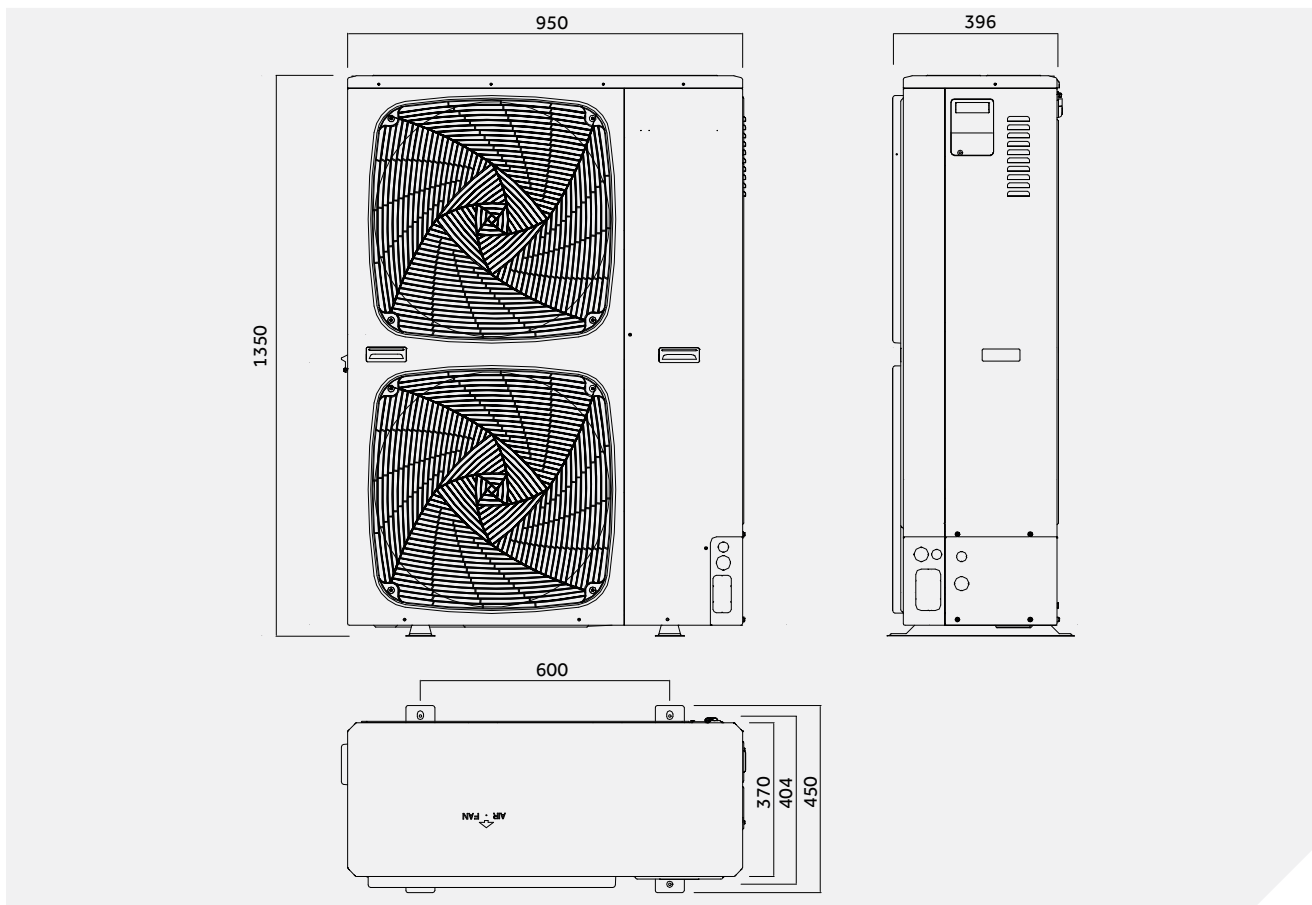
# DRAWINGS

## OUTDOOR UNITS

1UH105N1ERG



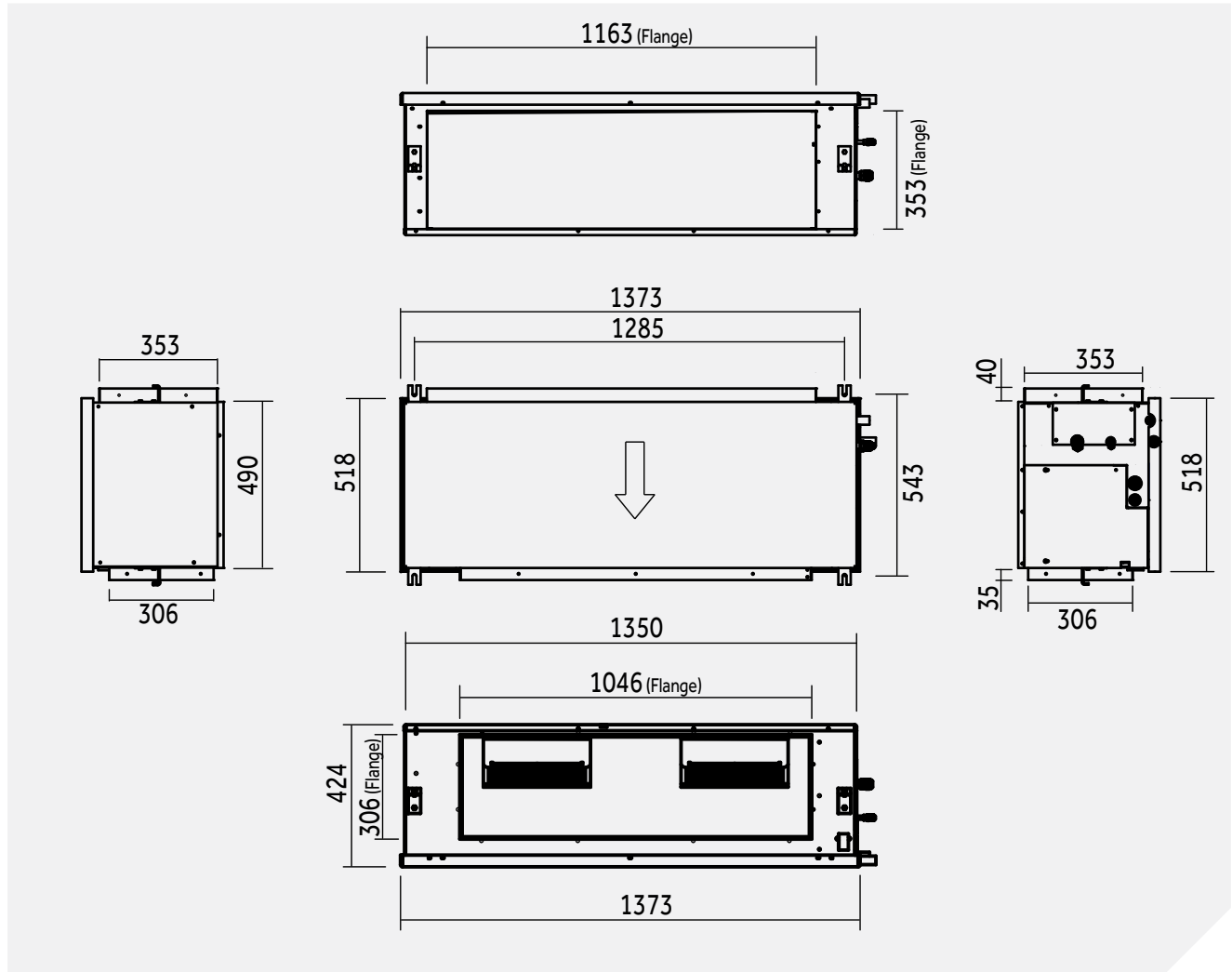
1UH125P1ERG 1UH140P1ERG 1UH160P1ERG



# DRAWINGS

## INDOOR UNITS

ADH105H1ERG ADH125H1ERG ADH140H1ERG ADH160H1ERG





# CONTROL SYSTEM

## YR-E17

- 24 Hr Timer / Clock
- Small, Simple and Smart design, 86x86x13mm
- Touch screen with back-light
- On/Off, Mode, Fan speed, Temperature setting, Swing.
- Individual control & Group control (Max 16 indoor units)
- Fahrenheit / Celsius selectable; Sensitivity  $\pm 0.5^{\circ}\text{C}$
- Static pressure setting.



## YR-E16A

- 7 Day Timer / Clock
- Large touch button with colour LCD, with back-light.
- Error display in listed in Year/Month/Date format.
- On/Off, Mode, Fan speed, Temperature setting, Swing
- Individual control & Group control (Max 16 indoor units)
- Fahrenheit / Celsius selectable; Sensitivity  $\pm 0.5^{\circ}\text{C}$
- Static pressure setting



## RE-02

- Infrared receiver control for duct type indoor unit.
- Requires one YR-HD



## YR-HD

- On/Off, Mode, Fan speed, Temperature setting, Swing
- Individual control
- Timer
- Clock
- Requires one RE-02



(Part H0010401511)

## KZW-W001

- Wi-Fi control
- APP available for Apple and Android
- Weekly timer
- Connect multiple units one APP



# CENTRAL CONTROL SYSTEM

## YCZ-G001

- Central control (Max 32 indoor units)
- Individual control, Group control
- Large touch key
- 7 day timer.
- Unit name & Group name free setting. Four background available (mall, hotel, office, home)



## YCZ-A004

- Central control (Max 256 indoor units)
- Individual control, Group control
- 7-inch Touch colour screen, with back-light
- Schedule control
- Indoor units information edit



ACTUAL SIZE



**For Haier Appliances**

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New Zealand 0800 424 372 | [haier.co.nz](http://haier.co.nz)

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