

# Smart Power Low Profile Ducted



Haier





## 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, 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.

# FEATURE LEGEND

## HEALTH



Premium air filtration for removal of smaller airborne dust particles, and other materials.



In cooling or dehumidification mode operation, the dust on the evaporator is removed with the condensate water, and after the cooling has shut down the fan will continue to operate to dry the evaporator.

## 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 at low compressor frequency, reduce noise and energy at lower RPM's, when compared to a standard inverter system.



Latest technology DC motor adopted instead of AC motors. DC motor require reduced power to operate versus a typical AC motor. Built-in microprocessor allows for programmability and better airflow control, lower vibration and lower noise levels at varying speeds.



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

## 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.



Connection possible to a Building Management System via a interface accessory device.



Built in timer



Prevent unauthorised operation

## CONVENIENCE



Inbuilt condensate pump to elevate condensate to allow for flexible location of indoor unit.



Pipe connection inside cabinet for a smooth exterior



Condensate connection (gravity drain) can be can be left or right



Ultra slim 250mm design. Design suited to minimise ceiling dimensions in multi story construction, or where ceiling height is limited.

## 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.



Fresh air duct connection to allow fresh air to be ducted directly into the unit, improving room oxygen levels.



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



Microprocessor controlled motors change the direction of outlet airflow, imitating nature.

## 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.



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

# 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

LOW PROFILE MEDIUM STATIC DUCTED



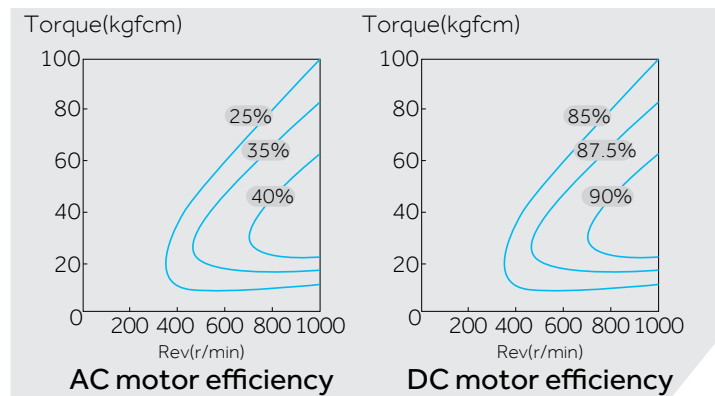


- Key feature
- Specifications
- Drawings
- Control systems



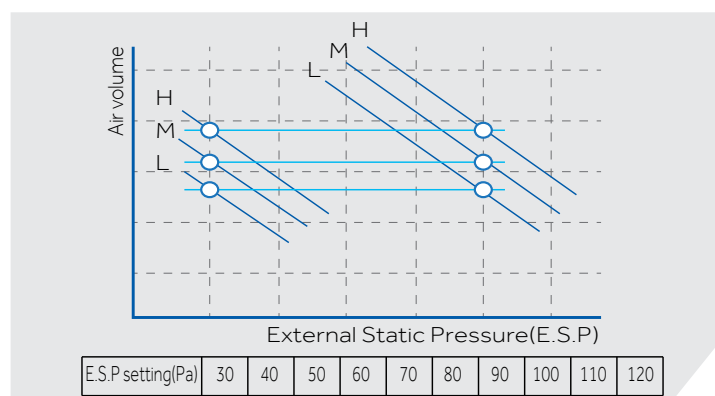
## DC fan Motor

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.



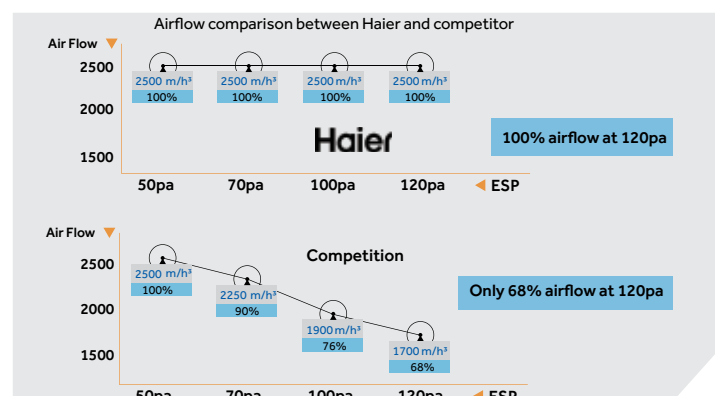
## Adjustable Static Pressure

The wired controller can make simple adjustments for the 7.1 & 8.0 kW of (10, 30, 50 & 70Pa) whilst the 10, 12.5 & 14 kW has adjustments of 30 to 120Pa in order to maintain airflow or sound levels as required.



## Consistent airflow

The indoor units contain up to 3 fans which can provide consistent airflow in different ductwork installations, enhancing comfort. No loss is airflow at increased static pressure installations.





## Super slim

Ultra slim design, the height of the medium static ducted indoor unit is 250mm only. Designed to fit into spaces where a normal ducted system is not suitable.



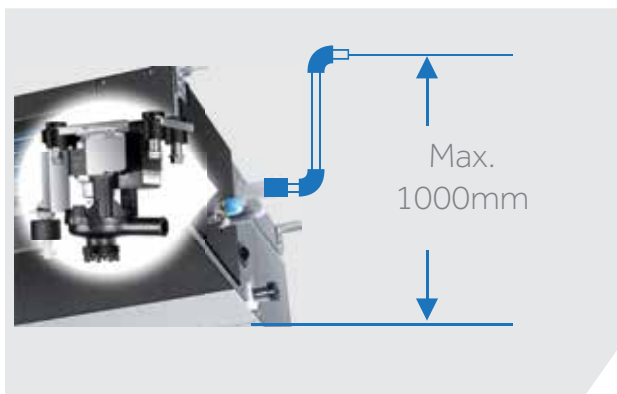
## Return air choices

Friendly design: Rear air return or bottom air return is available. The indoor unit is supplied as rear return air design, but with a simple panel change the unit can be field converted to a bottom return air.



## High lift drain pump

Condensate water lift up to 750mm, which will allow for a flexible installation



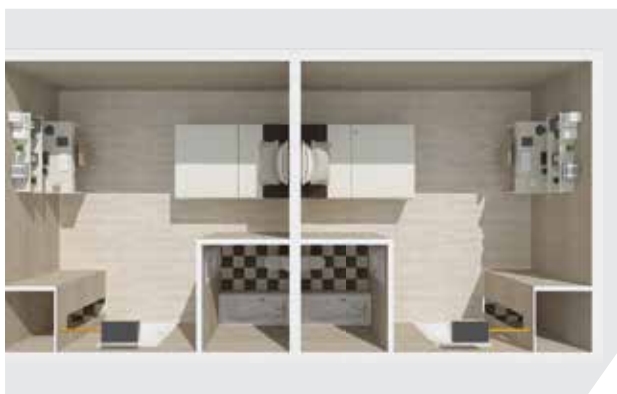
## Low sound level

The 10-14kW duct unit is designed with three fan design to reduce the sound level. The 10kW duct unit low fan speed has a sound pressure level of 38 dB(A).



## Left or right drain outlet

Gravity drain connection outlet can be connected on the left or right connection according to your layout, or utilise the drain pump outlet next to the electrical panel side.



## Corrosion protection

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



# LOW PROFILE MEDIUM STATIC DUCTED

ADH071M1ERG ADH090M1ERG ADH105M1ERG



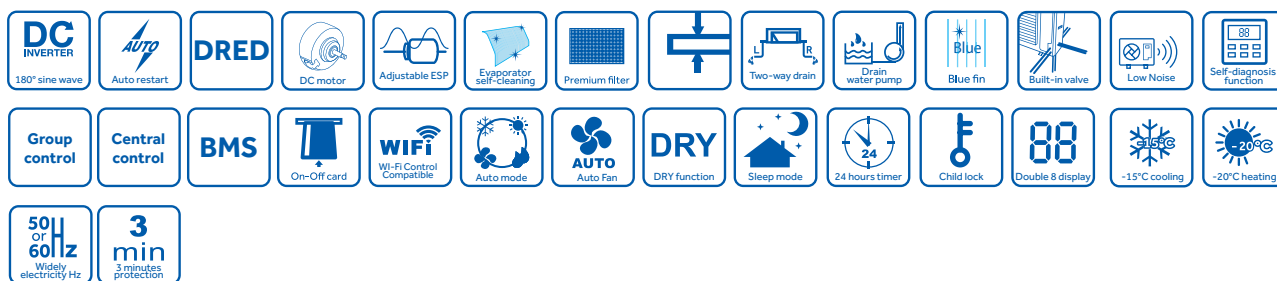
YR-E17



7.1kW, 9.0kW



10kW



Model			Indoor unit	ADH071M1ERG	ADH090M1ERG	ADH105M1ERG
			Outdoor unit	1UH071N1ERG	1UH090N1ERG	1UH105N1ERG
Nominal performance data	Capacity	Cooling	kW Nom (min-max)	7.1 (2.0-9.0)	8.5 (2.5-10)	10.0 (2.5-11)
		Heating	kW Nom (min-max)	8.0 (2.0-10.0)	9.5 (2.5-11)	10.4 (2.5-12)
	Rated power input	Cooling	kW Nom (min-max)	2.03 (0.4-4.0)	2.50 (0.5-4.4)	2.93 (0.5-4.5)
		Heating	kW Nom (min-max)	2.0 (0.4-4.0)	2.50 (0.5-4.4)	2.97 (0.5-4.5)
	EER			3.5	3.4	3.4
COP			4.0	3.8	3.5	
Indoor Unit						
Electrical	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)		m3/h	1050/840/630	1300/900/700	2000/1740/1380/1280
			L/S	290/230/175	360/250/190	555/480/380/355
	External Static Pressure	pa	10/30/50/70	10/30/50/70	30 to 120	
	Sound power level (H/M/L)	dB(A)	58	60	55	
	Sound pressure level (H/M/L)	dB(A)	38/35/32	40/37/34	32/28/25/23	
Installation	External dimensions (WxDxH)	mm	957x655x250			1500x700x250
	Shipping dimensions (WxDxH)	mm	1170x860x340			1710x865x320
	Net/Shipping weight	kg	31.2/36.8			49/61
	Supply air Flange	mm	145x800			168x1286
	Return Air Flange	mm	235x851			235x1435
	Wired Controller	Standard	YR-E17			
		Optional	YR-E16A (7 day time clock)			
Outdoor Unit						
Electrical	Power supply		Ph/V/Hz	1/220-240/50/60		
Performance	Air flow (H)		m3/h	3200	3500	4000
			L/S	890	975	1115
	Sound power level	dB(A)	64	66	68	
	Sound pressure level	dB(A)	47	50	52	
Installation	External dimensions (HxWxD)	mm	965x950x370			
	Shipping dimensions (HxWxD)	mm	1095x1050x450			
	Net/Shipping weight	kg	80/92			82/94
	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			

# LOW PROFILE MEDIUM STATIC DUCTED

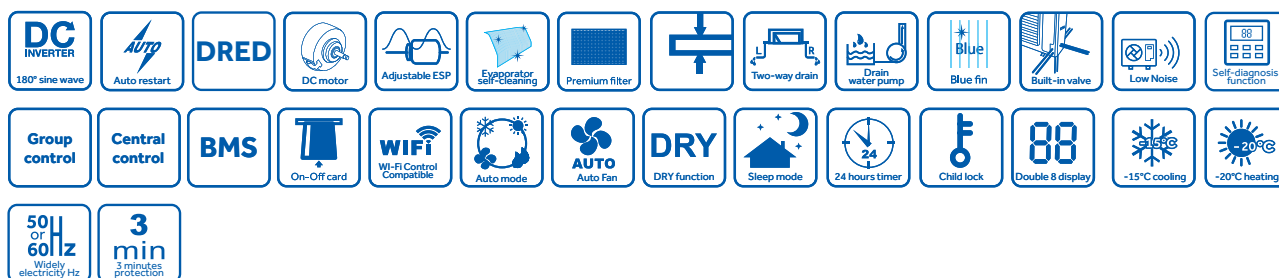
ADH125M1ERG ADH140M1ERG



YR-E17



12.5kW, 14kW

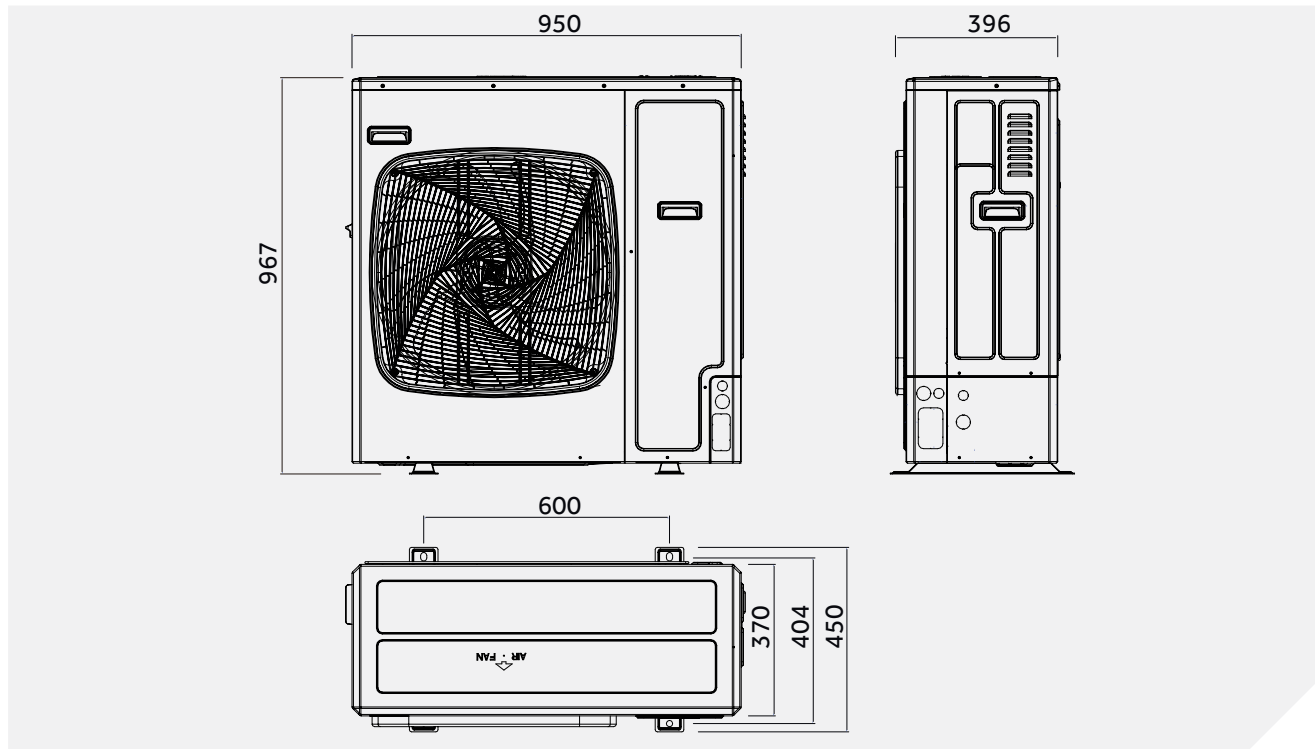


Model			Indoor unit	ADH125M1ERG	ADH140M1ERG	ADH125M1ERG	ADH140M1ERG
			Outdoor unit	1UH125P1ERG	1UH140P1ERG	1UH125P1ERK	1UH140P1ERK
Nominal performance data	Capacity	Cooling	kW Nom (min-max)	12.5 (3.5~15.0)	13.4 (3.5~16.0)	12.5 (3.5~15.0)	13.4 (3.5~15.5)
		Heating	kW Nom (min-max)	13.7 (4.0~18.0)	15.0 (4.0~19.0)	13.7 (4.0~18.0)	15.0 (4.0~19.0)
	Rated power input	Cooling	kW Nom (min-max)	3.67 (1.0~6.5)	4.05 (1.0~6.5)	3.67 (1.0~6.5)	4.05 (1.0~6.5)
		Heating	kW Nom (min-max)	3.91 (1.0~6.5)	4.29 (1.2~6.5)	3.91 (1.0~6.5)	4.29 (1.2~6.5)
	EER			3.4	3.3	3.4	3.3
	COP			3.5	3.5	3.5	3.5
Indoor Unit							
Electrical	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)		m3/h	2250/1960/1680/1500	2500/2160/1780/1500	2250/1960/1680/1500	2500/2160/1780/1500
			L/S	625/540/465/415	690/600/490/415	625/540/465/415	690/600/490/415
	External Static Pressure	pa	30 to 120	30 to 120	30 to 120	30 to 120	
	Sound power level (H/M/L)	dB(A)	62	64	62	64	
	Sound pressure level (H/M/L)	dB(A)	39/36/33/31	41/36/33/31	39/36/33/31	41/36/33/31	
Installation	External dimensions (WxDxH)	mm	1500x700x250				
	Shipping dimensions (WxDxH)	mm	1710x865x320				
	Net/Shipping weight	kg	52/63				
	Supply air Flange	mm	168x1286				
	Return Air Flange	mm	235x1435				
	Wired Controller	Standard	YR-E17				
		Optional	YR-E16A (7 day time clock)				
	Outdoor Unit						
Electrical	Power supply		Ph/V/Hz	1/220~240/50/60		3/380~415/50/60	
Performance	Air flow (H)		m3/h	6500	7000	6500	7000
			L/S	1810	1945	1810	1945
	Sound power level	dB(A)	69	70	69	70	
	Sound pressure level	dB(A)	52	53	52	53	
Installation	External dimensions (HxWxD)	mm	1350x950x370				
	Shipping dimensions (HxWxD)	mm	1500x1090x480				
	Net/Shipping weight	kg	108/121				
	Compressor type		Twin rotary				
	Refrigerant type		R410A				
	Refrigerant liquid pipe	mm	9.52				
	Refrigerant gas pipe	mm	15.88				
	Max pipe length	m	75				
	Max height between I.U.&O.U	m	30				
	Refrigerant pre-charged	kg	3.7				
	Pre-charged line length	m	30				
	Additional gas charge	g/m	45				
Working temp.	Cooling (Min-Max)	°C	-15 to +50				
	Heating (Min-Max)	°C	-20 to +24				

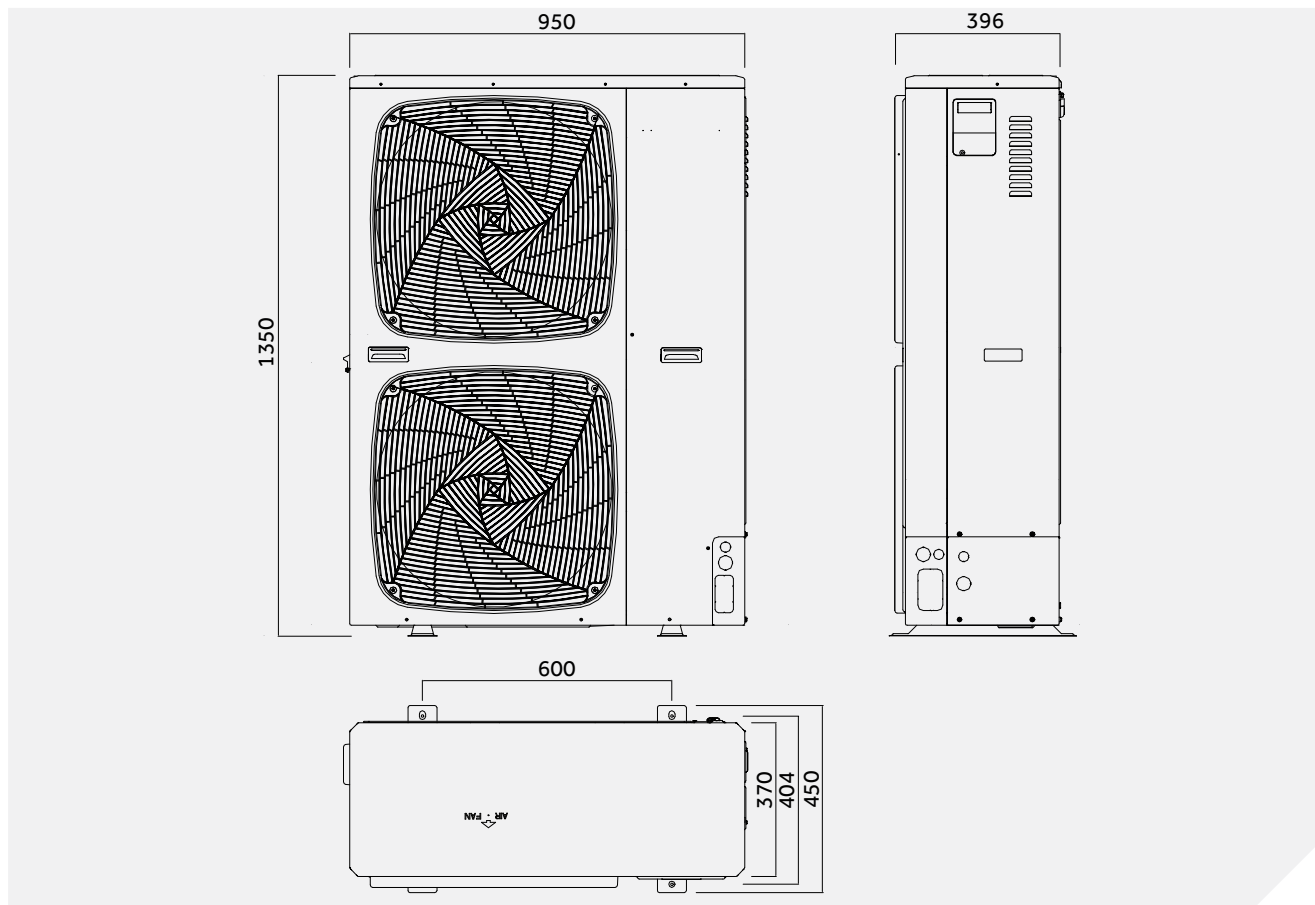
# DRAWINGS

## OUTDOOR UNITS

1UH071N1ERG 1UH090N1ERG 1UH105N1ERG



1UH125P1ERG 1UH125P1ERK 1UH140P1ERG 1UH140P1ERK

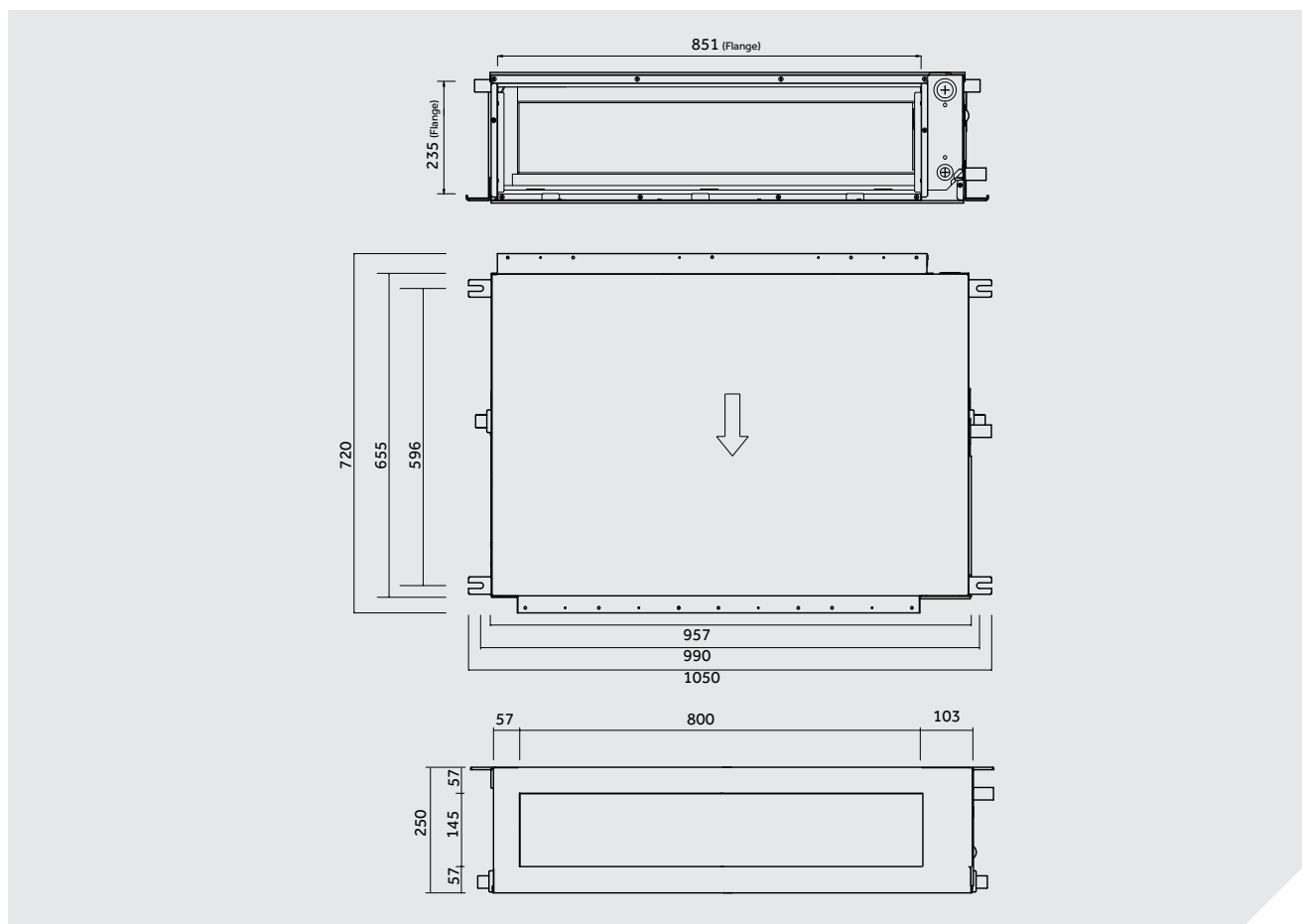


# DRAWINGS

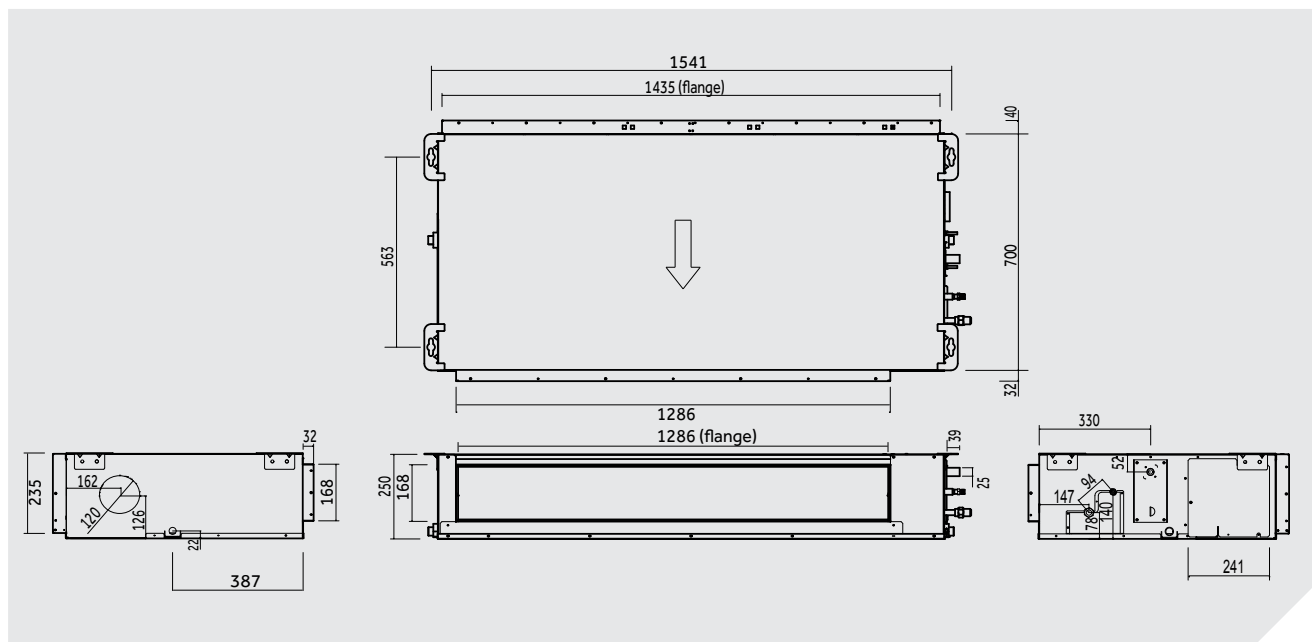
## INDOOR UNITS

### LOW PROFILE MEDIUM STATIC DUCTED

ADH071M1ERG ADH090M1ERG



ADH105M1ERG ADH125M1ERG ADH140M1ERG





# 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.
- Required one YR-HD



## YR-HD

- On/Off, Mode, Fan speed, Temperature setting, Swing
- Individual control
- Timer
- Clock



(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





**For Haier Appliances**

Australia 1300 729 948 | [haier.com.au](http://haier.com.au)

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

**Haier**

Important notice of Disclosure: Copyright © Fisher & Paykel Appliances 2016. All rights reserved.

The product dimensions and specifications in this brochure apply to the specific products and models described at the date of issue. Under our policy of continuous product improvement, these dimensions and specifications may change at any time. You should therefore check with your dealer or Haier's Customer Care Centre to ensure this flyer correctly describes the products currently available.

Fisher & Paykel Australia Pty Ltd, Level 1, 1 Eden Park Drive, Macquarie Park, NSW 2113.  
Phone Customer Care: 1300 729 948 Email: [customer.care@haier.com.au](mailto:customer.care@haier.com.au)

Fisher & Paykel Appliances Ltd, 78 Springs Road, East Tamaki, Auckland 2013.  
Phone Customer Care: 0800 424 372. Email: [customer.care@haier.co.nz](mailto:customer.care@haier.co.nz)

Version 3