Smart Power
Low Profile Ducted
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
- **DRED**
  - 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 Motor**
  - 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**
  - On/Off control card can be managed by a simple on/off device such as a hotel card system.

### TECHNOLOGY
- **MEPS**
  - Minimum Energy Performance Standards (MEPS) Conforms to Australian and New Zealand standard AS/NZS3823.2.2013
- **Group control**
  - Connection of more than one indoor unit so they can operate as a group.
- **Central control**
  - Connection to an accessory central control device to allow independent operation of more than one device at a central location.
- **BMS**
  - Connection possible to a Building Management System via a interface accessory device.
- **Built-in timer**
  - Prevent unauthorised operation

### 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.**
- **Allow 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.**

### CONVENIENCE
- **Built-in 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.**
Haier group was founded in Qingdao, China in 1984.

- 1985: Qingdao Qingkong air conditioner factory established. Haier manufactures China’s 1st split air conditioner.
- 1984: Haier group was founded in Qingdao, China.
- 1993: Haier introduces China’s first inverter air conditioner.
- 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 centrifugal chiller with maglev technology.
- 2007: Super match Haier achieves the bid of 20 projects of Beijing Olympic Games.
- 2009: Haier builds up the world’s most advanced intelligent factory.
- 2011: Haier establishes AC R&D center to enhance the R&D ability with more focus on user’s experience.
- 2014: Haier launches Smart Power high efficiency air conditioning system.
- 2015: Haier builds up the world’s most advanced intelligent factory.
- 2016: Haier launches Smart Power high efficiency air conditioning system.
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 Nominal performance data

<table>
<thead>
<tr>
<th>Model</th>
<th>Indoor unit</th>
<th>ADH071M1ERG</th>
<th>ADH090M1ERG</th>
<th>ADH105M1ERG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal performance data</td>
<td>Capacity Cooling kW Nom (min-max)</td>
<td>7.1 (2.0~9.0)</td>
<td>8.5 (2.5~10.0)</td>
<td>10.0 (2.5~11)</td>
</tr>
<tr>
<td></td>
<td>Heating kW Nom (min-max)</td>
<td>8.0 (2.0~10.0)</td>
<td>9.5 (2.5~11)</td>
<td>10.4 (2.5~12)</td>
</tr>
<tr>
<td></td>
<td>Rated power input Cooling kW Nom (min-max)</td>
<td>2.03 (0.4~4.0)</td>
<td>2.50 (0.5~4.4)</td>
<td>2.97 (0.5~4.6)</td>
</tr>
<tr>
<td></td>
<td>Heating kW Nom (min-max)</td>
<td>2.0 (0.4~4.0)</td>
<td>2.50 (0.5~4.4)</td>
<td>2.97 (0.5~4.6)</td>
</tr>
<tr>
<td></td>
<td>EER</td>
<td>3.5</td>
<td>3.4</td>
<td>3.4</td>
</tr>
<tr>
<td></td>
<td>COP</td>
<td>4.5</td>
<td>3.8</td>
<td>3.3</td>
</tr>
</tbody>
</table>

Indoor Unit

<table>
<thead>
<tr>
<th>Performance</th>
<th>Electrical Power supply Ph/V/Hz</th>
<th>1/220~240/50/60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air flow (H/M/L) m3/h</td>
<td>1050/840/630</td>
<td>1300/950/700</td>
</tr>
<tr>
<td>External Static Pressure</td>
<td>10/30/50/70</td>
<td></td>
</tr>
<tr>
<td>Sound power level (H/M/L) dB(A)</td>
<td>58</td>
<td>60</td>
</tr>
<tr>
<td>Sound pressure level</td>
<td>10/30/50/70</td>
<td></td>
</tr>
<tr>
<td>Net/Shipping weight kg</td>
<td>51.276/8</td>
<td></td>
</tr>
<tr>
<td>Supply air Flange mm</td>
<td>145x800</td>
<td></td>
</tr>
<tr>
<td>Return Air Flange mm</td>
<td>235x851</td>
<td></td>
</tr>
<tr>
<td>Wired Controller</td>
<td>Standard YR-E17</td>
<td></td>
</tr>
</tbody>
</table>

Outdoor Unit

<table>
<thead>
<tr>
<th>Performance</th>
<th>Electrical Power supply Ph/V/Hz</th>
<th>1/220~240/50/60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air flow (H) m3/h</td>
<td>3200</td>
<td>3500</td>
</tr>
<tr>
<td>Sound power level dB(A)</td>
<td>890</td>
<td>975</td>
</tr>
<tr>
<td>Sound pressure level dB(A)</td>
<td>64</td>
<td></td>
</tr>
<tr>
<td>Net/Shipping weight kg</td>
<td>51.276/8</td>
<td></td>
</tr>
<tr>
<td>External dimensions (HxWxD) mm</td>
<td>965x950x370</td>
<td></td>
</tr>
<tr>
<td>Shipping dimensions (HxWxD) mm</td>
<td>1095x1050x450</td>
<td></td>
</tr>
<tr>
<td>Refrigerant type</td>
<td>Twin rotary R410A</td>
<td></td>
</tr>
<tr>
<td>Refrigerant liquid pipe mm</td>
<td>9.52</td>
<td></td>
</tr>
<tr>
<td>Refrigerant gas pipe mm</td>
<td>15.88</td>
<td></td>
</tr>
<tr>
<td>Max pipe length m</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Max height between I.U.&amp;O.U m</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Refrigerant pre-charged kg</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>Pre-charged line length m</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Additional gas charge g/m</td>
<td>45</td>
<td></td>
</tr>
</tbody>
</table>

Working temp.

| Cooling (Min-Max) °C | -15 to +50 |
| Heating (Min-Max) °C | -20 to +24 |
## LOW PROFILE MEDIUM STATIC DUCTED

**Model**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>ADH125M1ERG</th>
<th>ADH125M1ERG</th>
<th>ADH140M1ERG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling</td>
<td>12.5 (3.5-15.0)</td>
<td>12.5 (3.5-15.0)</td>
<td>13.4 (4.5-15.5)</td>
</tr>
<tr>
<td>Heating</td>
<td>15.7 (4.0-18.0)</td>
<td>13.7 (4.0-18.0)</td>
<td>15.0 (4.0-19.0)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rated power input</th>
<th>ADH125M1ERG</th>
<th>ADH125M1ERG</th>
<th>ADH140M1ERG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heating</td>
<td>3.67 (1.0-6.5)</td>
<td>3.67 (1.0-6.5)</td>
<td>4.03 (1.0-6.5)</td>
</tr>
<tr>
<td>Heating</td>
<td>3.91 (1.0-6.5)</td>
<td>3.91 (1.0-6.5)</td>
<td>4.29 (1.2-6.5)</td>
</tr>
</tbody>
</table>

**EER**

- ADH125M1ERG: 3.4
- ADH125M1ERG: 3.4
- ADH140M1ERG: 3.3

**COP**

- ADH125M1ERG: 3.5
- ADH125M1ERG: 3.5
- ADH140M1ERG: 3.5

### Indoor Unit

**Electrical**

- Power supply: 1/220~240/50/60

**Performance**

- Air flow (H/M/L): 625/540/465/415
- Air flow (H/M/L): 625/540/465/415
- Air flow (H/M/L): 625/540/465/415

**External Static Pressure**

- 30 to 120
- 30 to 120
- 30 to 120

**Sound power level (H/M/L)**

- 62
- 62
- 64

**Sound pressure level (H/M/L)**

- 39/36/33/31
- 39/36/33/31
- 41/36/33/31

**Installation**

- External dimensions (WxDxH): 1500x700x250
- External dimensions (WxDxH): 1710x865x320

### Outdoor Unit

**Electrical**

- Power supply: 1/220~240/50/60
- Power supply: 3/380~415/50/60

**Performance**

- Air flow (H): 6500
- Air flow (H): 7000

**External dimensions (HxWxD):**

- 1350x950x370
- 1500x1090x480

**Net/Shipping weight:**

- 105/118
- 108/121

**Working temp.**

- Cooling (Min-Max): -15 to +50
- Heating (Min-Max): -20 to +24
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 ±0.5°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 ±0.5°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

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
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

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