

# RANGE

## OUTDOOR UNITS

Energy efficiency class up to A++ in cooling mode and up to A+ in heating mode.

Intelligent adjustment of compressor frequency, accurate temperature control.

Reliable cooling and heating operation down to -20° C outdoor temperature.

Maximum length of pipe connections 75m; height difference between units up to 30m.

Minimization of the sound level thanks to the axial fan.

Rapid achievement of comfort conditions: the unit allows rapid cooling and heating and is able to quickly reach the temperature set by the user.

Intelligent defrosting technology: the unit is able to correctly evaluate the presence of frost on the outdoor unit through a temperature sensor. The goal is to "defrost only when needed", optimizing the heating effect for high environmental comfort.



AEG ECO 35PIH  
AEG ECO 50PIH  
AEG ECO 70PIH  
AEG ECO 85PIH



AEG ECO 100PIH  
AEG ECO 100PIH3  
AEG ECO 140PIH  
AEG ECO 140PIH3



AEG ECO 160PIH

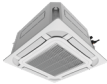
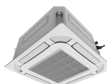
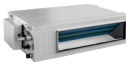
| Code      | Model           | Nominal heating capacity [kW] | Nominal cooling capacity [kW] |
|-----------|-----------------|-------------------------------|-------------------------------|
| 398000710 | AEG ECO 35PIH   | 3,50                          | 4,00                          |
| 398000711 | AEG ECO 50PIH   | 5,0                           | 5,5                           |
| 398000712 | AEG ECO 70PIH   | 7,0                           | 8,0                           |
| 398000713 | AEG ECO 85PIH   | 8,5                           | 8,8                           |
| 398000714 | AEG ECO 100PIH  | 10,00                         | 12,00                         |
| 398000716 | AEG ECO 100PIH3 | 10,00                         | 12,00                         |
| 398000715 | AEG ECO 140PIH  | 13,40                         | 15,50                         |
| 398000717 | AEG ECO 140PIH3 | 13,40                         | 15,50                         |
| 398000718 | AEG ECO 160PIH  | 14,50                         | 17,00                         |

**A++** Cooling

**A+** Heating

# RANGE

## INDOOR UNITS

| Type                                           | Features                                                                                                                                                     |                                                                                     | Code      | Model                 |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|-----------------------|
| COMPACT CASSETTE<br>WITH 360° AIR<br>DISCHARGE | <ul style="list-style-type: none"><li>- 8-way compact</li><li>- Integrated condensate drain pump</li><li>- Ideal for installation in false ceiling</li></ul> |    | 398000726 | ASG ECO 35PH          |
|                                                |                                                                                                                                                              |                                                                                     | 398000727 | ASG ECO 50PH          |
| GRID FOR COMPACT CASSETTE                      |                                                                                                                                                              |                                                                                     | 398100668 | GRID CASSETTE COMPACT |
| CASSETTE WITH 360°<br>AIR DISCHARGE            | <ul style="list-style-type: none"><li>- 8-way</li><li>- Wide range of flap swinging</li><li>- Integrated condensate drain pump</li></ul>                     |    | 398000728 | ASG ECO 70PH          |
|                                                |                                                                                                                                                              |                                                                                     | 398000729 | ASG ECO 85PH          |
|                                                |                                                                                                                                                              |                                                                                     | 398000730 | ASG ECO 100PH         |
|                                                |                                                                                                                                                              |                                                                                     | 398000731 | ASG ECO 140PH         |
|                                                |                                                                                                                                                              |                                                                                     | 398000732 | ASG ECO 160PH         |
| GRID FOR BIG CASSETTE                          |                                                                                                                                                              |                                                                                     | 398100677 | GRID BIG CASSETTE     |
| SLIM DUCTED                                    | <ul style="list-style-type: none"><li>- Low external static pressure</li><li>- Silence</li><li>- Integrated condensate drain pump</li></ul>                  |  | 398000719 | ADG ECO 35PH          |
|                                                |                                                                                                                                                              |                                                                                     | 398000720 | ADG ECO 50PH          |
|                                                |                                                                                                                                                              |                                                                                     | 398000721 | ADG ECO 70PH          |
|                                                |                                                                                                                                                              |                                                                                     | 398000722 | ADG ECO 85PH          |
| HIGH STATIC<br>PRESSURE DUCTED                 | <ul style="list-style-type: none"><li>- High external static pressure</li><li>- Silence</li><li>- Integrated condensate drain pump</li></ul>                 |  | 398000767 | ADG ECO 70PHB         |
|                                                |                                                                                                                                                              |                                                                                     | 398000768 | ADG ECO 85PHB         |
|                                                |                                                                                                                                                              |                                                                                     | 398000723 | ADG ECO 100PH         |
|                                                |                                                                                                                                                              |                                                                                     | 398000724 | ADG ECO 140PH         |
|                                                |                                                                                                                                                              |                                                                                     | 398000725 | ADG ECO 160PH         |
| FLOOR/CEILING                                  | <ul style="list-style-type: none"><li>- Double flap</li><li>- 11 fan speeds</li><li>- Wide range of flap swinging</li></ul>                                  |  | 398000771 | ACG ECO 35PH          |
|                                                |                                                                                                                                                              |                                                                                     | 398000733 | ACG ECO 50PH          |
|                                                |                                                                                                                                                              |                                                                                     | 398000734 | ACG ECO 70PH          |
|                                                |                                                                                                                                                              |                                                                                     | 398000735 | ACG ECO 85PH          |
|                                                |                                                                                                                                                              |                                                                                     | 398000736 | ACG ECO 100PH         |
|                                                |                                                                                                                                                              |                                                                                     | 398000737 | ACG ECO 140PH         |
|                                                |                                                                                                                                                              |                                                                                     | 398000738 | ACG ECO 160PH         |
| FLOOR STANDING                                 | <ul style="list-style-type: none"><li>- 5 modes</li><li>- Quick cooling and heating</li><li>- Autoswing</li></ul>                                            |  | 398000772 | AFSI ECO 120 HL       |

# FLOOR/CEILING



(Standard)

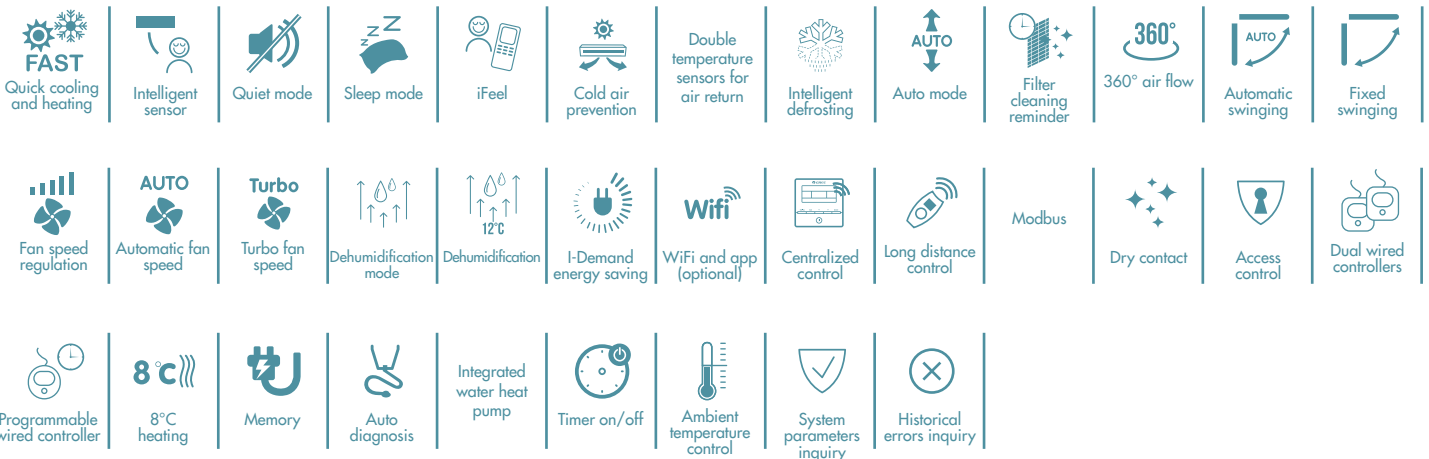
Infrared remote controller



(Optional)

Wired controller

- Floor or ceiling units for light commercial/industrial applications
- Suitable for shops, offices, meeting rooms, hotels, restaurants, clubs, gyms and open space areas
- Compact structure: only 235 mm of thickness
- Double flap: when the unit is turned off, the air supply can be completely closed in order to prevent the entry of dust
- The wide oscillation angle of the flap allows the flow of horizontal air delivery (ceiling application): this excludes direct air flows on people in the environment
- You can select one of the 11 fan speeds available
- There are 3 exit options for the connecting pipes, to facilitate installation in any circumstances
- The design of the electrical box side does not affect the return of air and facilitates maintenance
- They are equipped with a double room temperature sensor for customizable comfort: possibility of selecting the return air temperature sensor on the unit or the temperature sensor on the wired control
- High energy efficiency, at all powers expressed, both in cold and in heat, especially with a view to operating 365 days a year (seasonal efficiency)
- The special closing system of the refrigerant valve prevents and excludes the risk of gas leaks due to inappropriate maintenance



**A++** Cooling

**A+** Heating

## TECHNICAL DATA MATCHING WITH FLOOR CEILING UNITS

| Indoor unit model                                             |                          | ACG ECO 35PH                 |         | ACG ECO 50PH                 |         |
|---------------------------------------------------------------|--------------------------|------------------------------|---------|------------------------------|---------|
| Outdoor unit model                                            |                          | AEG ECO 35PIH                |         | AEG ECO 50PIH                |         |
|                                                               | Units                    | Cooling                      | Heating | Cooling                      | Heating |
| Nominal capacity (EN14511)                                    | kW                       | 3,50                         | 4,00    | 5,0                          | 5,5     |
|                                                               | BTU/h                    | 11900                        | 13600   | 17000                        | 18700   |
| EER/COP (EN14511)                                             |                          | 3,89                         | 4,21    | 3,21                         | 3,33    |
| Design Load (Pdesign c/Pdesign h)<br>(Average) (EN14825)*     | kW                       | 3,5                          | 3,1     | 5,0                          | 4,0     |
| Seasonal efficiency ratio (SEER/SCOP<br>(Average)) (EN14825)* |                          | 6,7                          | 4,0     | 6,1                          | 4,0     |
| Energy efficiency class*                                      |                          | A++                          | A+      | A++                          | A+      |
| Seasonal energy consumption (Average)*                        | kWh/annum                | 177                          | 1040    | 287                          | 1400    |
| Air flowrate Indoor (sh.-h.-m.-l.)                            | m <sup>3</sup> /h        | 650-580-480-400              |         | 700-580-480-400              |         |
| Dehumidification                                              | l/h                      | 1,4                          |         | 1,8                          |         |
| Fan speeds (Indoor/Outdoor)                                   | n°                       | 4/2                          |         | 4/2                          |         |
| Sound pressure Indoor (sh.-h.-m.-l.)                          | dB(A)                    | 39-36-32-28                  |         | 44-42-39-36                  |         |
| Sound pressure Outdoor (h.)                                   | dB(A)                    | 50                           |         | 51                           |         |
| Sound power Indoor (sh.-h.-m.-l.)                             | dB(A)                    | 51-48-44-40                  |         | 57-55-52-49                  |         |
| Sound power Outdoor (h.)                                      | dB(A)                    | 64                           |         | 65                           |         |
| Power supply                                                  | V/Ph/Hz                  | 220-240/1/50<br>208-230/1/60 |         | 220-240/1/50<br>208-230/1/60 |         |
| Power input                                                   | kW                       | 0,90                         | 0,95    | 1,56                         | 1,65    |
| Compressor type                                               |                          | Rotary DC Inverter           |         | Rotary DC Inverter           |         |
| Refrigerant type/GWP                                          |                          | R32/675                      |         | R32/675                      |         |
| Refrigerant charge                                            | kg/T.CO <sub>2</sub> eq. | 0,78/0,53                    |         | 1,0/0,68                     |         |
| Liquid pipe diameter                                          | mm (")                   | 6,35 (1/4")                  |         | 6,35 (1/4")                  |         |
| Gas pipe diameter                                             | mm (")                   | 9,52 (3/8")                  |         | 12,70 (1/2")                 |         |
| Min.-max. pipe lenght with gas standard charge                | m                        | 5-7                          |         | 7,5-9,5                      |         |
| Max. pipe lenght with additional charge                       | m                        | 30                           |         | 35                           |         |
| Additional refrigerant charge                                 | g/m                      | 16                           |         | 16                           |         |
| Max. height difference (Outdoor above)                        | m                        | 15                           |         | 20                           |         |
| Max. height difference (Indoor above)                         | m                        | 15                           |         | 20                           |         |
| Indoor net dimension (H./W./D.)                               | mm                       | 235/870/665                  |         | 235/870/665                  |         |
| Outdoor net dimension (H./W./D.)                              | mm                       | 596/818/302                  |         | 596/818/302                  |         |
| Net weight Indoor/Outdoor                                     | kg                       | 25/37                        |         | 26/39                        |         |

OPERATING RANGE: outdoor temperature

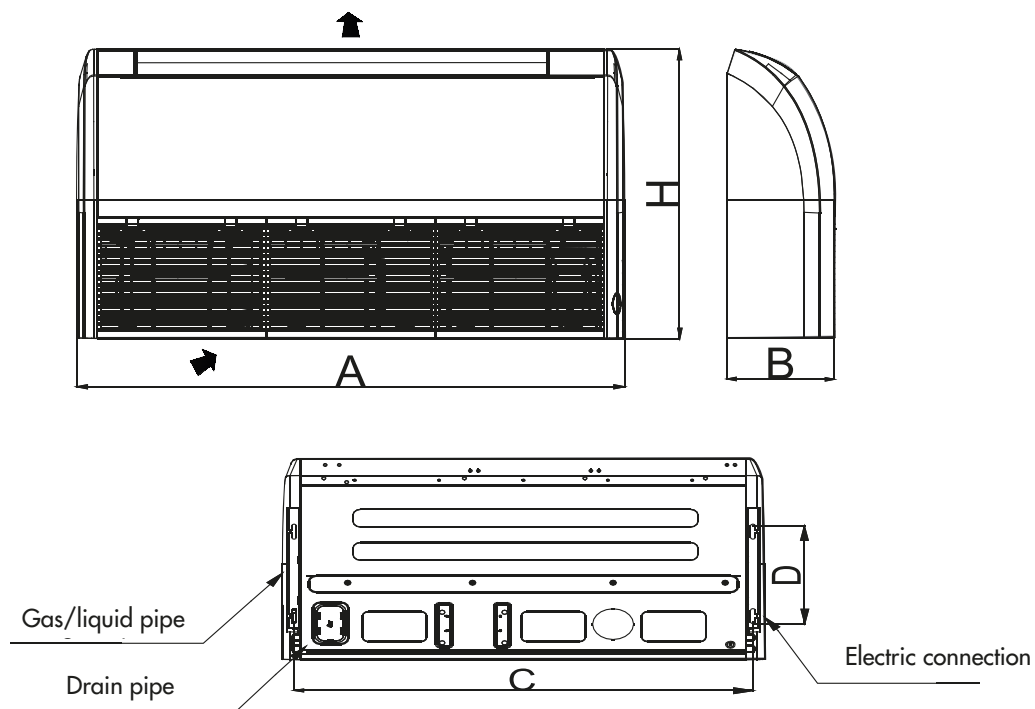
Cooling mode: from -20 °C to +48 °C

Heating mode: from -20 °C to +24 °C

RANGE OF INDOOR TEMPERATURE ADJUSTMENT: from 16 to 30 °C.

\*Data declared in compliance with EU Regulation no. 206/2012, as regards to Ecodesign requirements for air conditioners and comfort fans, and EU Regulation no. 626/2011, concerning the energy labelling of air conditioners, and tested according to standard EN14825.

# DIMENSIONAL DRAWING INDOOR UNITS



| MODEL         | DIMENSIONS (mm) |     |      |     |     |
|---------------|-----------------|-----|------|-----|-----|
|               | A               | B   | C    | D   | H   |
| ACG ECO 35PH  | 870             | 235 | 812  | 318 | 665 |
| ACG ECO 50PH  | 870             | 235 | 812  | 318 | 665 |
| ACG ECO 70PH  | 1200            | 235 | 1142 | 318 | 665 |
| ACG ECO 85PH  | 1200            | 235 | 1142 | 318 | 665 |
| ACG ECO 100PH | 1200            | 235 | 1142 | 318 | 665 |
| ACG ECO 140PH | 1570            | 235 | 1512 | 318 | 665 |
| ACG ECO 160PH | 1570            | 235 | 1512 | 318 | 665 |