

LINE-UP

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, up to +52 °C (cooling).

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

Minimization of the sound level thanks to the axial fan.

Fast 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 PLUS 35PIH (1PH)



AEG ECO PLUS 50PIH (1PH)
AEG ECO PLUS 71PIH (1PH)
AEG ECO PLUS 85PIH (1PH)



AEG ECO PLUS 100PIH (1PH)
AEG ECO PLUS 100PIH3 (3PH)
AEG ECO PLUS 140PIH (1PH)
AEG ECO PLUS 140PIH3 (3PH)



AEG ECO PLUS 160PIH3 (3PH)

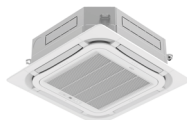
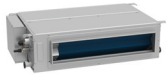
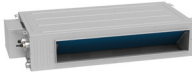
Code	Model	Nominal (max.-min.) heating capacity (kW)	Nominal (max.-min.) cooling capacity (kW)
398700009	AEG ECO PLUS 35PIH	3.50 (0.90-4.69)	4.00 (0.90-4.50)
398700010	AEG ECO PLUS 50PIH	5.00 (1.60-5.80)	5.50 (1.60-6.10)
398700011	AEG ECO PLUS 71PIH	7.00 (2.40-7.60)	8.00 (2.20-8.60)
398700012	AEG ECO PLUS 85PIH	8.50 (2.90-9.00)	8.80 (2.30-9.50)
398700013	AEG ECO PLUS 100PIH	10.50 (3.20-11.00)	11.50 (3.00-12.50)
398700015	AEG ECO PLUS 100PIH3	10.50 (3.20-11.00)	11.50 (3.00-12.50)
398700014	AEG ECO PLUS 140PIH	13.40 (4.00-14.20)	15.50 (3.90-16.00)
398700016	AEG ECO PLUS 140PIH3	13.40 (4.00-14.20)	15.50 (3.90-16.00)
398700017	AEG ECO PLUS 160PIH3	14.50 (6.80-16.80) Cassette-Floor/ceiling	17.00 (4.50-17.50) Cassette-Floor/ceiling
		16.00 (4.80-17.00) Ducted	17.00 (4.50-18.00) Ducted

A++ Cooling

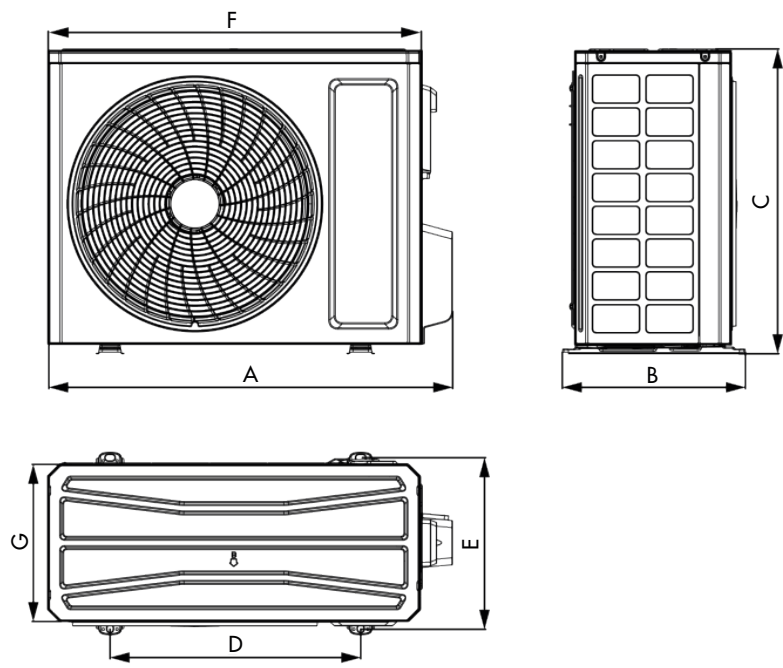
A+ Heating

LINE-UP

INDOOR UNITS

Code	Model	Features	
398700025	ASG ECO PLUS 35PH	- 8-way compact cassette with 360° air discharge - Integrated condensate drain pump - Ideal for installation in false ceiling	
398100688	GRID CASSETTE COMPACT	Grid for compact cassette (35)	
398700026	ASG ECO PLUS 50PH	- 8-way cassette with 360° air discharge - Wide range of flap swinging - Integrated condensate drain pump	
398700027	ASG ECO PLUS 71PH		
398700028	ASG ECO PLUS 85PH		
398700029	ASG ECO PLUS 100PH		
398700030	ASG ECO PLUS 140PH		
398700031	ASG ECO PLUS 160PH		
398100677	GRID BIG CASSETTE	Grid for big cassette (50-160)	
398700018	ADG ECO PLUS 35PH	- Low external static pressure slim ducted - Silence - Integrated condensate drain pump	
398700019	ADG ECO PLUS 50PH		
398700020	ADG ECO PLUS 71PH	- High external static pressure ducted - Silence - Integrated condensate drain pump	
398700021	ADG ECO PLUS 85PH		
398700022	ADG ECO PLUS 100PH		
398700023	ADG ECO PLUS 140PH		
398700024	ADG ECO PLUS 160PH		
398700032	ACG ECO PLUS 35PH	- Floor/ceiling units - Double flap - Wide range of flap swinging	
398700033	ACG ECO PLUS 50PH		
398700034	ACG ECO PLUS 71PH		
398700035	ACG ECO PLUS 85PH		
398700036	ACG ECO PLUS 100PH		
398700037	ACG ECO PLUS 140PH		
398700038	ACG ECO PLUS 160PH		

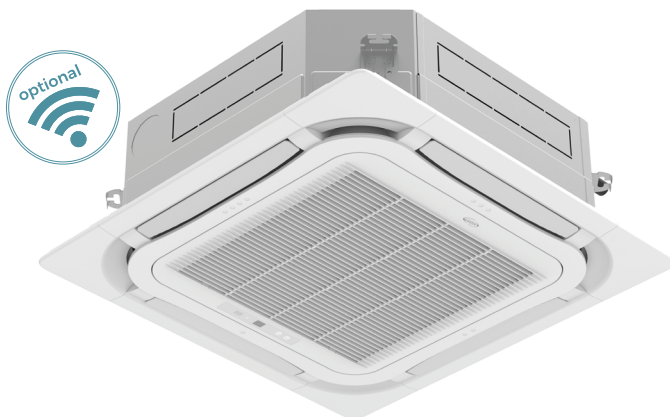
OUTDOOR UNITS DIMENSIONAL DRAWING



MODEL	DIMENSIONS (mm)						
	A	B	C	D	E	F	G
AEG ECO PLUS 35PIH	732	330	553	455	310	675	285
AEG ECO PLUS 50PIH	802	350	555	512	331	745	300
AEG ECO PLUS 71PIH	958	402	660	570	371	889	340
AEG ECO PLUS 85PIH	958	402	660	570	371	889	340
AEG ECO PLUS 100PIH	1020	427	820	635	396	940	370
AEG ECO PLUS 100PIH3	1020	427	820	635	396	940	370
AEG ECO PLUS 140PIH	1020	427	820	635	396	940	370
AEG ECO PLUS 140PIH3	1020	427	820	635	396	940	370
AEG ECO PLUS 160PIH3	1020	427	960	755	396	990	370

CASSETTE

WITH 360° AIR DISCHARGE



(Standard)
Infrared remote
controller



(Optional)
Wired controller
with WiFi

- 8-way cassette units for light commercial/industrial applications.
- Suitable for shops, offices, meeting rooms, hotels, restaurants, clubs, gyms and open space areas.
- Attractive design.
- 360° air discharge, with range of flap oscillation between 45 and 80°, different according to the heating/cooling modes, for maximum comfort.
- Fan has optimized aerodynamic profiles for maximum silence.
- Condensate drain pump is integrated for a height difference up to 1000 mm.
- 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 the capacities, both in cooling and heating modes (seasonal efficiency).
- The special closing system of the refrigerant valve prevents and avoids the risk of refrigerant leaks from inappropriate maintenance.
- The electrical box has a special design and is made of fireproof material, for maximum protection of the electronic board from the risks of fire.
- Optional WiFi, with wired controller, accessory that can be ordered separately.



A++ Cooling

A+ Heating

TECHNICAL DATA

Indoor unit model		ASG ECO PLUS 71PH		ASG ECO PLUS 85PH	
Outdoor unit model		AEG ECO PLUS 71PIH		AEG ECO PLUS 85PIH	
	Units	Cooling	Heating	Cooling	Heating
Nominal (min.-max.) capacity (EN14511)	kW	7.10 (2.40-7.60)	8.00 (2.20-8.60)	8.50 (2.90-9.00)	8.80 (2.50-9.50)
	BTU/h	24200	27200	29000	30000
EER/COP (EN14511)		3.70	4.00	3.40	3.90
Design Load [Pdesign c/Pdesign h (Average)] (EN14825)*	kW	7.1	5.0	8.5	6.0
Seasonal efficiency ratio [SEER/SCOP (Average)] (EN14825)*		6.7	4.3	6.9	4.3
Energy efficiency class*		A++	A+	A++	A+
Seasonal energy consumption*	kWh/annum	371	1628	432	1954
Air flow rate Indoor (sh.-h.-m.-l.)	m³/h	1100-1000-900-800		1400-1300-1200-1100	
Dehumidification	l/h	2.4		2.8	
Fan speeds (Indoor/Outdoor)	n°	4/2		4/2	
Sound pressure Indoor (sh.-h.-m.-l.)	dB(A)	39-38-36-34		47-46-42-38	
Sound pressure Outdoor (h.)	dB(A)	58		65	
Sound power Indoor (sh.-h.-m.-l.)	dB(A)	51-50-48-47		59-51-48-46	
Sound power Outdoor (h.)	dB(A)	69		70	
Power supply	V/Ph/Hz	220-240~/1/50/60		220-240~/1/50/60	
Power input	kW	2.03	2.80	2.50	2.25
Maximum electrical power input	kW/A	2.80/14.00		3.30/15.00	
Compressor type		Rotary DC Inverter		Rotary DC Inverter	
Refrigerant type/GWP		R32/675		R32/675	
Refrigerant charge	kg/T.CO ₂ eq.	1.5/1.01		1.5/1.01	
Liquid pipe diameter	mm (inch)	9.52 (3/8")		9.52 (3/8")	
Gas pipe diameter	mm (inch)	15.88 (5/8")		15.88 (5/8")	
Pipe lenght with gas standard charge	m	5		5	
Max. pipe lenght with additional charge	m	30		30	
Additional refrigerant charge	g/m	20		20	
Max. height difference (Outdoor above)	m	20		25	
Max. height difference (Indoor above)	m	20		25	
Panel code to match		398100677		398100677	
Indoor net dimension without panel (H./W./D.)	mm	200/840/840		200/840/840	
Net dimension panel (H./W./D.)	mm	52/950/950		52/950/950	
Indoor net dimension with panel (H./W./D.)	mm	252/950/950		252/950/950	
Outdoor net dimension (H./W./D.)	mm	660/889/340		660/889/340	
Indoor unit without panel/Outdoor unit net weight	kg	21/41.5		21/46	
Panel net weight	kg	6		6	

OPERATING RANGE: outdoor temperature

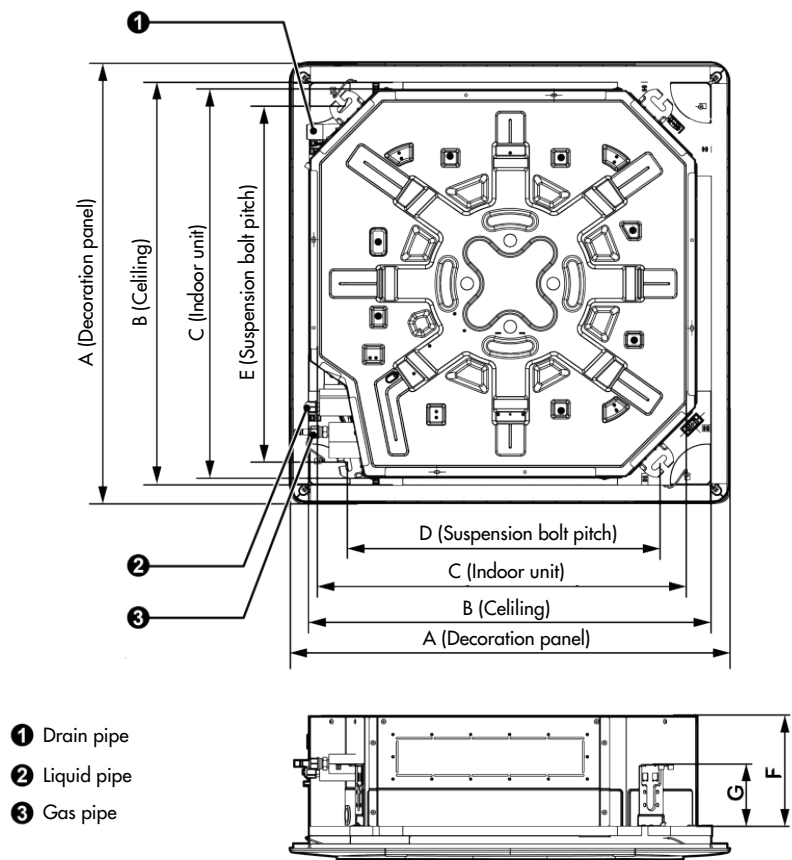
Cooling mode: from -20 °C to +52 °C

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.

INDOOR UNITS DIMENSIONAL DRAWING



MODEL	DIMENSIONS (mm)								
	A	B	C	D	E	F	G	H	I
ASG ECO PLUS 50PH	950	890	840	680	780	200	135	-	-
ASG ECO PLUS 71PH	950	890	840	680	780	200	135	-	-
ASG ECO PLUS 85PH	950	890	840	680	780	200	135	-	-
ASG ECO PLUS 100PH	950	890	840	680	780	240	135	-	-
ASG ECO PLUS 140PH	950	890	840	680	780	290	135	-	-
ASG ECO PLUS 160PH	950	890	840	680	780	290	135	-	-