

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)

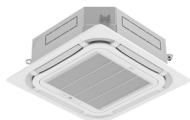
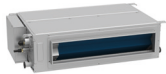
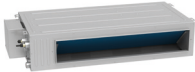
Code	Model	Nominal (max.-min.) heating capacity (kW)	Nominal (max.-min.) cooling capacity (kW)
398700009	AEG ECO PLUS 35PIH	3.50 (0.90-4.69)	4.00 (0.90-4.50)
398700010	AEG ECO PLUS 50PIH	5.00 (1.60-5.80)	5.50 (1.60-6.10)
398700011	AEG ECO PLUS 71PIH	7.00 (2.40-7.60)	8.00 (2.20-8.60)
398700012	AEG ECO 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

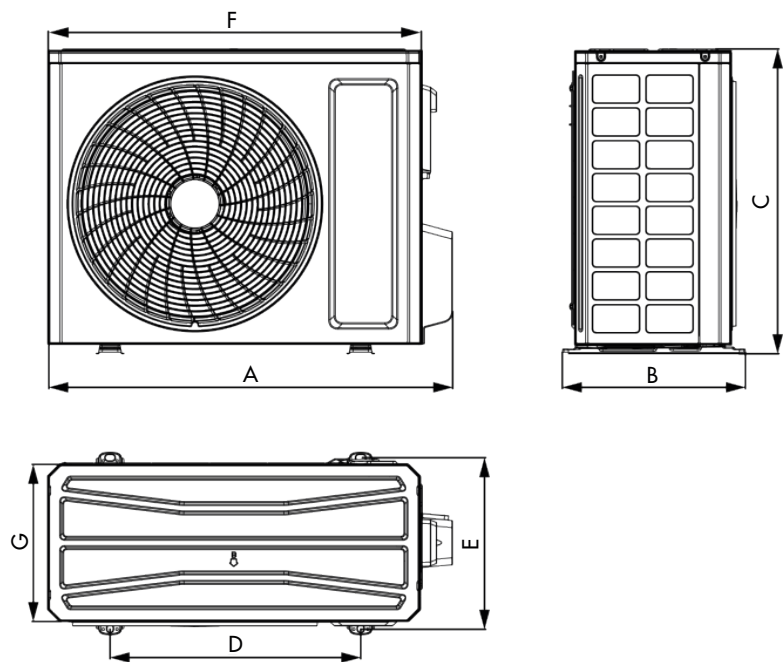
A+ Heating

LINE-UP

INDOOR UNITS

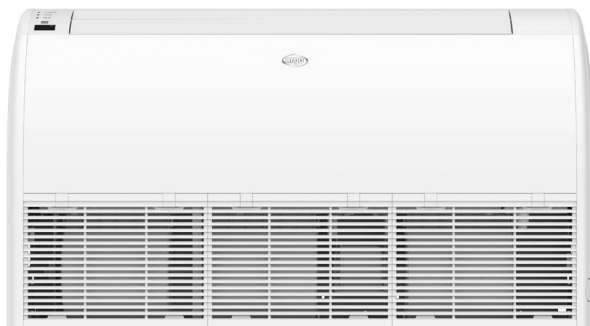
Code	Model	Features	
398700025	ASG ECO PLUS 35PH	- 8-way compact cassette with 360° air discharge - Integrated condensate drain pump - Ideal for installation in false ceiling	
398100688	GRID CASSETTE COMPACT	Grid for compact cassette (35)	
398700026	ASG ECO PLUS 50PH	- 8-way cassette with 360° air discharge - 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

FLOOR/CEILING



(Standard)
Infrared remote
controller



(Optional)
Wired controller
with WiFi

- 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
- 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.
- Optional WiFi, with wired control, accessory can be ordered separately.

FAST Quick cooling and heating	Intelligent sensor	Quiet mode	3 sleep modes	iFeel	Cold air prevention	Double temperature sensors for air return	Intelligent defrosting	AUTO Auto mode	Filter cleaning reminder	Timer	Automatic swinging	Fixed swinging
Fan speed regulation	AUTO Automatic fan speed	Turbo Turbo fan speed	Dehumidification	Dehumidification	Save energy	WiFi WiFi and app (optional)	Centralized control	Remote control	Modbus	Auto restart memory	Access control interface	Dual wired controllers
Programmable wired controller	8 °C 8 °C heating	Auto diagnosis	Ambient temperature control	System parameters inquiry	Historical errors inquiry							

A++ Cooling

A+ Heating

TECHNICAL DATA

Indoor unit model		ACG ECO PLUS 140PH		ACG ECO PLUS 140PH	
Outdoor unit model		AEG ECO PLUS 140PIH		AEG ECO PLUS 140PIH3	
	Units	Cooling	Heating	Cooling	Heating
Nominal capacity (min.-max.) (EN14511)	kW	13.40 (4.00-14.20)	15.50 (3.90-16.00)	13.40 (4.00-14.20)	15.50 (3.90-16.00)
	BTU/h	45700	52800	45700	52800
EER/COP (EN14511)		3.12	3.69	3.12	3.52
Rated capacity (Prated,c/Prated,h)*		13.40	15.50	13.40	15.50
Seasonal space energy efficiency (ηs,c/ηs,h)*	%	254.7	163.6	253.0	158.2
Air flow rate Indoor (sh.-h.-m.-l.)	m³/h	2300-2100-1800-1500		2300-2100-1800-1500	
Dehumidification	l/h	3.9		3.9	
Fan speeds (Indoor/Outdoor)	n°	4/2		4/2	
Sound pressure Indoor (sh.-h.-m.-l.)	dB(A)	51-48-45-43		51-48-45-43	
Sound pressure Outdoor (h.)	dB(A)	59		59	
Sound power Indoor (sh.-h.-m.-l.)	dB(A)	67-65-63-59		67-65-63-59	
Sound power Outdoor (h.)	dB(A)	70		70	
Power supply	V/Ph/Hz	220-240~/1/50/60		380-415~/3/50/60	
Power input	kW	4.30	4.20	4.30	4.40
Maximum electrical power input	kW/A	5.60/25.00		5.60/11.00	
Compressor type		Rotary DC Inverter		Rotary DC Inverter	
Refrigerant type/GWP		R32/675		R32/675	
Refrigerant charge	kg/T.CO ₂ eq.	2.8/1.89		2.8/1.89	
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")	
Min.-max. pipe lenght with gas standard charge	m	7.5-9.5		7.5-9.5	
Max. pipe lenght with additional charge	m	75		75	
Additional refrigerant charge	g/m	35		35	
Max. height difference (Outdoor above)	m	30		30	
Max. height difference (Indoor above)	m	30		30	
Indoor net dimension (H./W./D.)	mm	665/1570/235		665/1570/235	
Outdoor net dimension (H./W./D.)	mm	820/940/460		820/940/460	
Net weight Indoor/Outdoor	kg	42/73		42/95	

OPERATING RANGE: outdoor temperature

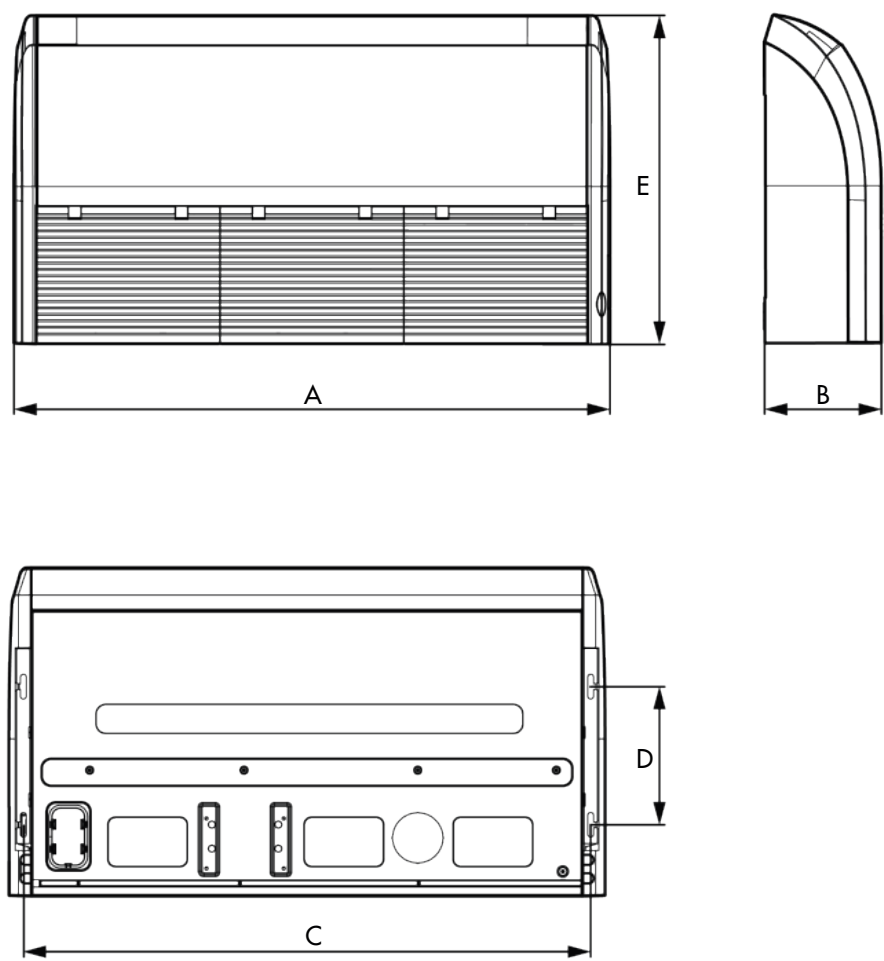
Cooling mode: from -20 °C to +52 °C

Heating mode: from -20 °C to +24 °C

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

*Data declared in accordance with COMMISSION REGULATION (EU) 2016/2281 of 30 November 2016 implementing Directive 2009/125/EC of the European Parliament and of the Council establishing a framework for the setting of ecodesign requirements for energy-related products, with regard to ecodesign requirements for air heating products, cooling products, high temperature process chillers and fan coil units.

INDOOR UNITS DIMENSIONAL DRAWING



MODEL	DIMENSIONS (mm)				
	A	B	C	D	E
ACG ECO PLUS 35PH	870	235	812	280	665
ACG ECO PLUS 50PH	870	235	812	280	665
ACG ECO PLUS 71PH	1200	235	1142	280	665
ACG ECO PLUS 85PH	1200	235	1142	280	665
ACG ECO PLUS 100PH	1200	235	1142	280	665
ACG ECO PLUS 140PH	1570	235	1512	280	665
ACG ECO PLUS 160PH	1570	235	1512	280	665