

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

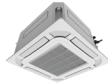
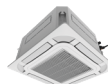
Code	Model	Nominal heating capacity [kW]	Nominal cooling capacity [kW]
398000710	AEG ECO 35PIH	3,50	4,00
398000711	AEG ECO 50PIH	5,0	5,5
398000712	AEG ECO 70PIH	7,0	8,0
398000713	AEG ECO 85PIH	8,5	8,8
398000714	AEG ECO 100PIH	10,00	12,00
398000716	AEG ECO 100PIH3	10,00	12,00
398000715	AEG ECO 140PIH	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

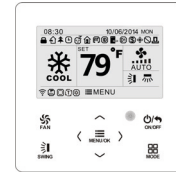
Type	Features		Code	Model
COMPACT CASSETTE WITH 360° AIR DISCHARGE	- 8-way compact - Integrated condensate drain pump - Ideal for installation in false ceiling		398000726	ASG ECO 35PH
			398000727	ASG ECO 50PH
GRID FOR COMPACT CASSETTE			398100668	GRID CASSETTE COMPACT
CASSETTE WITH 360° AIR DISCHARGE	- 8-way - Wide range of flap swinging - Integrated condensate drain pump		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	- Low external static pressure - Silence - Integrated condensate drain pump		398000719	ADG ECO 35PH
			398000720	ADG ECO 50PH
			398000721	ADG ECO 70PH
			398000722	ADG ECO 85PH
HIGH STATIC PRESSURE DUCTED	- High external static pressure - Silence - Integrated condensate drain pump		398000767	ADG ECO 70PHB
			398000768	ADG ECO 85PHB
			398000723	ADG ECO 100PH
			398000724	ADG ECO 140PH
			398000725	ADG ECO 160PH
FLOOR/CEILING	- Double flap - 11 fan speeds - Wide range of flap swinging		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	- 5 modes - Quick cooling and heating - Autoswing		398000772	AFSI ECO 120 HL

COMPACT CASSETTE

WITH 360° AIR DISCHARGE



(Standard)
Infrared remote
controller



(Optional)
Wired controller

- 8-way cassette units for light commercial/industrial applications
- Suitable for shops, offices, meeting rooms, hotels, restaurants, clubs, gyms and open space areas
- Compact and attractive design
- 8-way, 360° air discharge, with range of flap oscillation between 45 and 80°, different according to the heating/cooling modes, for maximum comfort
- The dimensions 570 x 570 mm are convenient for installation in false ceilings with standard modules 600 x 600 mm
- 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
- Connection to a fresh air intake is possible from outdoors
- 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

FAST Quick cooling and heating	Intelligent sensor	Quiet mode	Sleep mode	iFeel	Cold air prevention	Double temperature sensors for air return	Intelligent defrosting	Auto mode	Filter cleaning reminder	360° air flow	Automatic swinging	Fixed swinging
Fan speed regulation	AUTO Automatic fan speed	Turbo Turbo fan speed	Dehumidification mode	Dehumidification 12°C	I-Demand energy saving	WiFi WiFi and app (optional)	Centralized control	Long distance control	Modbus	Dry contact	Access control	Dual wired controllers
Programmable wired controller	8°C heating	Memory	Auto diagnosis	Integrated water heat pump	Timer on/off	Ambient temperature control	System parameters inquiry	Historical errors inquiry				

A+ Cooling

A+ Heating

TECHNICAL DATA MATCHING WITH COMPACT CASSETTE WITH 360° AIR DISCHARGE UNITS

Indoor unit model		ASG ECO 35PH		ASG 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)		3,50	3,81	3,21	3,33
Design Load (Pdesign c/Pdesign h) (Average) (EN14825)*	kW	3,5	3,1	5,0	4,0
Seasonal efficiency ratio (SEER/SCOP (Average) (EN14825)*		5,9	4,0	5,9	4,0
Energy efficiency class*		A+	A+	A+	A+
Seasonal energy consumption (Average)*	kWh/annum	213	1069	287	1400
Air flowrate Indoor (sh.-h.-m.-l.)	m³/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)	41-39-36-33		44-39-36-33	
Sound pressure Outdoor (h.)	dB(A)	50		56	
Sound power Indoor (sh.-h.-m.-l.)	dB(A)	57-55-52-49		60-55-52-49	
Sound power Outdoor (h.)	dB(A)	64		65	
Power supply	V/Ph/Hz	220-240/1/50 208-230/1/60		220-240/1/50 208-230/1/60	
Power input	kW	1,00	1,05	1,56	1,65
Compressor type		Rotary DC Inverter		Rotary DC Inverter	
Refrigerant type/GWP		R32/675		R32/675	
Refrigerant charge	kg/T.CO ₂ 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	
Panel code to match		TF05		TF05	
Indoor net dimension without panel (H./W./D.)	mm	265/570/570		265/570/570	
Net dimension panel (H./W./D.)	mm	47,5/620/620		47,5/620/620	
Indoor net dimension with panel (H./W./D.)	mm	312,5/620/620		312,5/620/620	
Outdoor net dimension (H./W./D.)	mm	596/818/302		596/818/302	
Indoor unit without panel/Outdoor unit net weight	Kg	17/37		17/39	
Panel net weight	Kg	3		3	

OPERATING RANGE: outdoor temperature

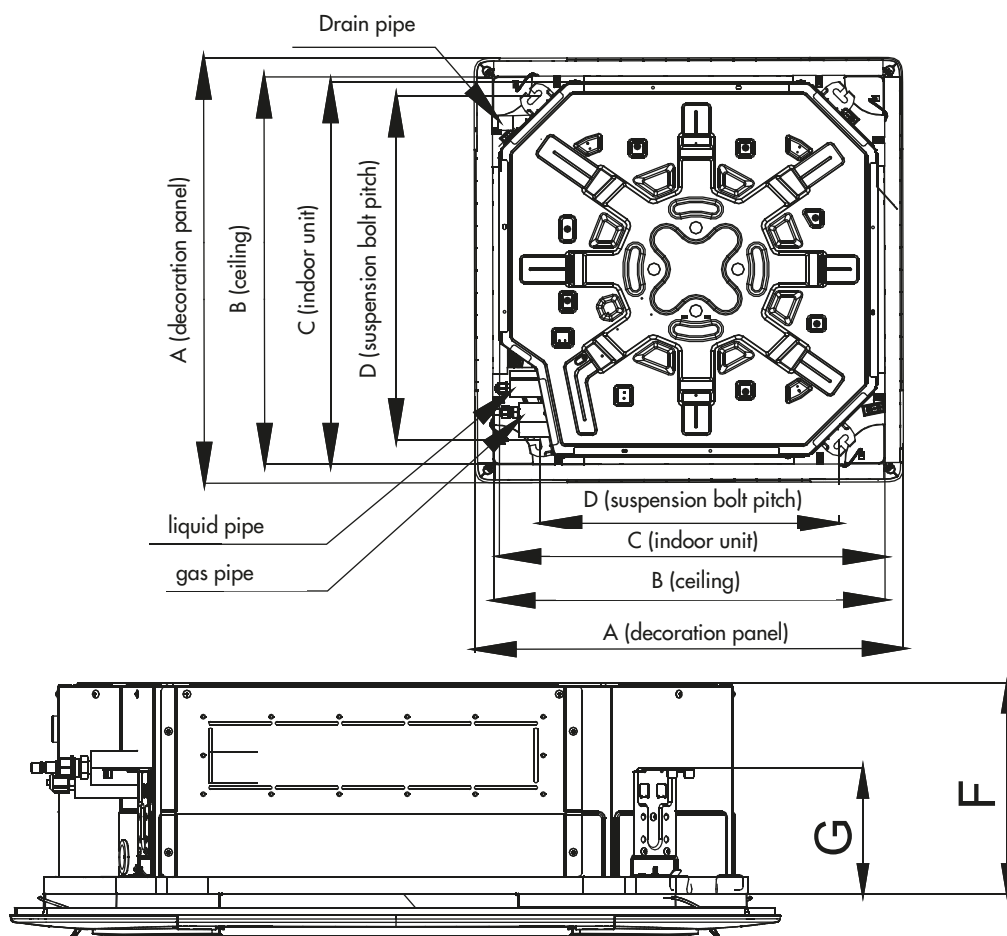
Cooling mode: from -20 °C to +48 °C

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	E	F	G
ASG ECO 35PH	620	580	570	520	560	265	140
ASG ECO 35PH	620	580	570	520	560	265	140
ASG ECO 50PH	620	580	570	520	560	265	140
ASG ECO 70PH	950	870	840	660	790	240	134
ASG ECO 85PH	950	870	840	660	790	240	134
ASG ECO 100PH	950	870	840	660	790	240	134
ASG ECO 140PH	950	870	840	660	790	290	134
ASG ECO 160PH	950	870	840	660	790	290	134