

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

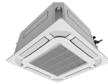
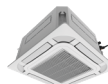
Code	Model	Nominal heating capacity [kW]	Nominal cooling capacity [kW]
398000710	AEG ECO 35PIH	3,50	4,00
398000711	AEG ECO 50PIH	5,0	5,5
398000712	AEG ECO 70PIH	7,0	8,0
398000713	AEG ECO 85PIH	8,5	8,8
398000714	AEG ECO 100PIH	10,00	12,00
398000716	AEG ECO 100PIH3	10,00	12,00
398000715	AEG ECO 140PIH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

A++ Cooling

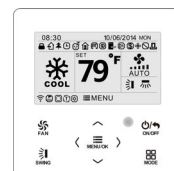
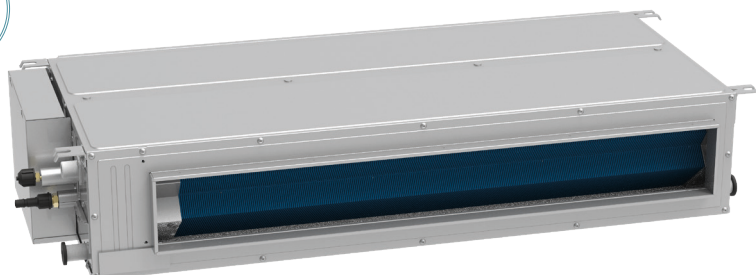
A+ Heating

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

SLIM DUCTED



(Standard)

Wired controller

- Slim ducted units for light commercial/industrial applications
- Suitable for shops, offices, meeting rooms, hotels, restaurants, clubs, gyms and open space areas
- Ultra-thin, these units are characterized by an air discharge design optimized to minimize the sound level and improve performance
- The height is only 200 mm for 3.5 and 5.0 kW models and 220 mm for 7 and 8.5 kW models: these units are among the thinnest on the market
- The special design of the evaporating coil (V-shape), covered by a patent, favors a more effective exchange of air
- The centrifugal fan is also characterized by a patented design and allows higher air flow and greater silence
- The external static pressure reaches 75 Pa, ensuring maximum adaptability to different types of installation
- The combination with the wired control allows to optimize the external static pressure according to the different technical installation requirements
- The condensate drain pump is integrated for a height difference of up to 1000 mm
- You can choose between rear or bottom air intake
- You can select one of the 11 fan speed available
- The DC motor ensures energy saving and high efficiency
- Double room temperature sensor for a customizable comfort: possibility to select the sensor of return air temperature on the unit or of the sensor of temperature on the wired control
- Connection to fresh air intake from outdoors is possible
- High energy efficiency, at all 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



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



Automatic fan speed



Turbo fan speed



Dehumidification mode



Dehumidification 12°C



I-Demand energy saving



WiFi and app (optional)



Centralized control



Long distance control



Modbus



Dry contact



Access control



Dual wired controllers



Programmable wired controller



8°C heating



Memory



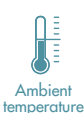
Auto diagnosis



Integrated water heat pump



Timer on/off



Ambient temperature control



System parameters inquiry



Historical errors inquiry

A++ Cooling

A+ Heating

TECHNICAL DATA MATCHING WITH SLIM DUCTED UNITS

Indoor unit model		ADG ECO 35PH		ADG ECO 50PH	
Outdoor unit model		AEG ECO 35PIH		AEG ECO 50PIH	
	Units	Cooling	Heating	Cooling	Heating
Nominal capacity (EN14511)	kW	3,5	4,0	5,0	5,5
	BTU/h	12000	13600	17000	18700
EER/COP (EN14511)		3,68	3,81	3,23	3,79
Design Load (Pdesign c/Pdesign h) (Average) (EN14825)*	kW	3,5	3,1	5,0	4,2
Seasonal efficiency ratio (SEER/SCOP (Average) (EN14825)*		6,1	4,0	6,1	4,0
Energy efficiency class*		A++	A+	A++	A+
Seasonal energy consumption (Average)*	kWh/annum	200	1110	287	1470
Air flowrate Indoor (sh.-h.-m.-l.)	m ³ /h	650-600-510-450		950-880-820-700	
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)	41-38-36-34		43-42-39-36	
Sound pressure Outdoor (h.)	dB(A)	59		58	
Sound power Indoor (sh.-h.-m.-l.)	dB(A)	51-48-46-44		53-52-49-46	
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	
Static pressure rated	Pa	25		25	
Static pressure range	Pa	0-50		0-50	
Power input	kW	0,95	1,05	1,55	1,45
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	3-5		3-5	
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	200/700/450		200/1000/450	
Outdoor net dimension (H./W./D.)	mm	596/818/302		596/818/302	
Net weight Indoor/Outdoor	Kg	20/37		26/39	

OPERATING RANGE: outdoor temperature

Cooling mode: from -20 °C to +48 °C

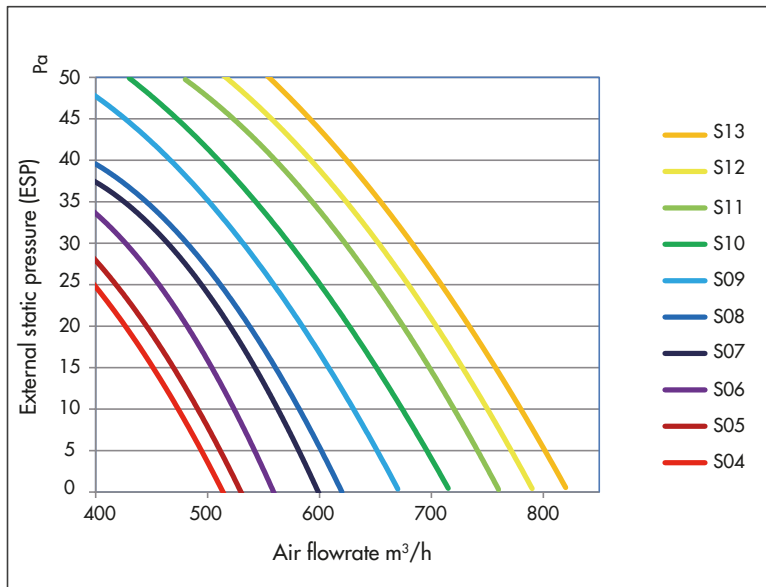
Heating mode: from -20 °C to +24 °C

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.

STATIC PRESSURE CURVES

ADG ECO 35PH - static pressure curves

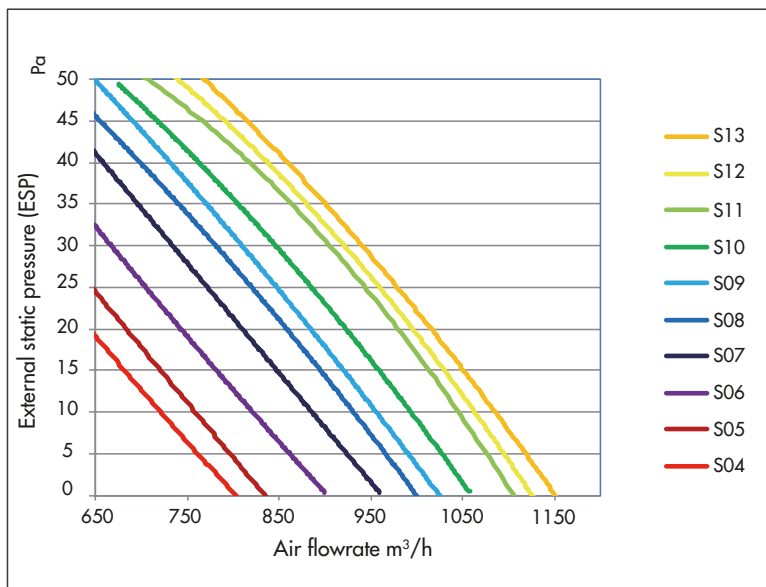


External static pressure	Turbo speed	High	Medium	Low
P03	S09	S08	S06	S04
P04	S10	S09	S07	S05
P05*	S11	S10	S08	S06
P06	S12	S11	S09	S07
P07	S13	S12	S10	S08

* Default static pressure level

The wired controller can be used to change the external static pressure (ESP) to turbo, high, medium and low fan speeds.

ADG ECO 50PH - static pressure curves



External static pressure	Turbo speed	High	Medium	Low
P03	S09	S08	S06	S04
P04	S10	S09	S07	S05
P05*	S11	S10	S08	S06
P06	S12	S11	S09	S07
P07	S13	S12	S10	S08

* Default static pressure level

The wired controller can be used to change the external static pressure (ESP) to turbo, high, medium and low fan speeds.