

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

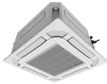
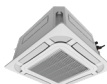
Code	Model	Nominal heating capacity [kW]	Nominal cooling capacity [kW]
398000710	AEG ECO 35PIH	3,50	4,00
398000711	AEG ECO 50PIH	5,0	5,5
398000712	AEG ECO 70PIH	7,0	8,0
398000713	AEG ECO 85PIH	8,5	8,8
398000714	AEG ECO 100PIH	10,00	12,00
398000716	AEG ECO 100PIH3	10,00	12,00
398000715	AEG ECO 140PIH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

A++ Cooling

A+ Heating

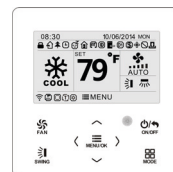
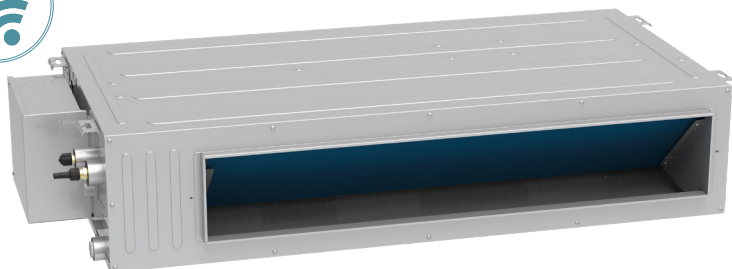
RANGE

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

DUCTED

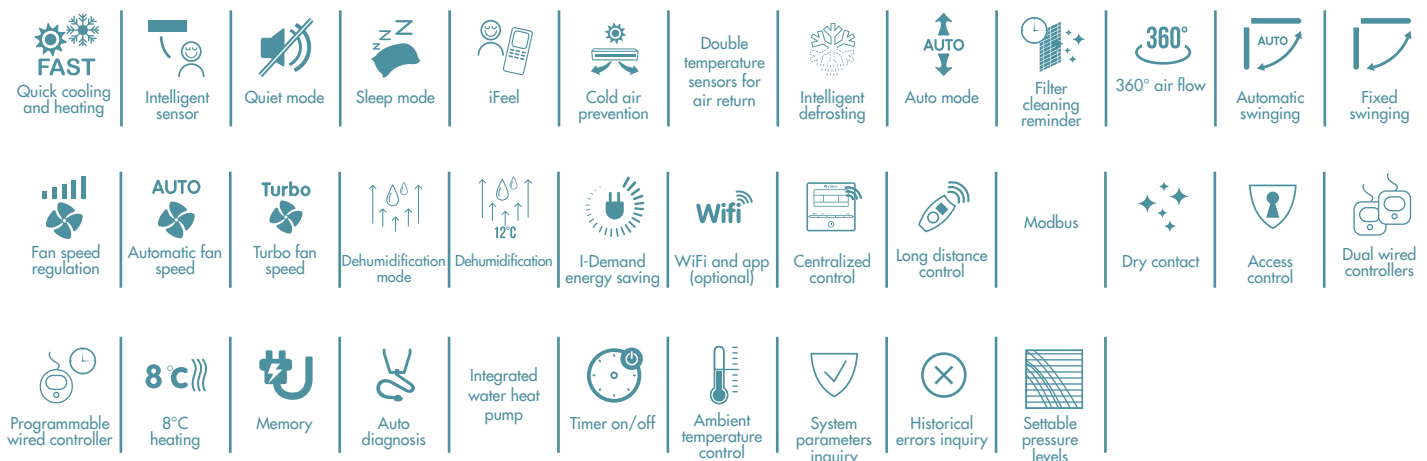
HIGH STATIC PRESSURE



(Standard)

Wired controller

- High static pressure ducted units for light commercial/industrial applications
- Suitable for shops, offices, meeting rooms, hotels, restaurants, clubs, gyms and open space areas
- The centrifugal fan is also characterized by a patented design and allows a higher air flow and greater silence
- The external static pressure reaches 200 Pa, ensuring maximum adaptability to different types of installation
- The combination with the wired controller allows to optimize the external static pressure according to the different technical installation requirements
- It's possible to select 5 external static pressure levels, depending on the installation
- 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 a 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 excludes the risk of gas leaks due to inappropriate maintenance



A++ Cooling

A+ Heating

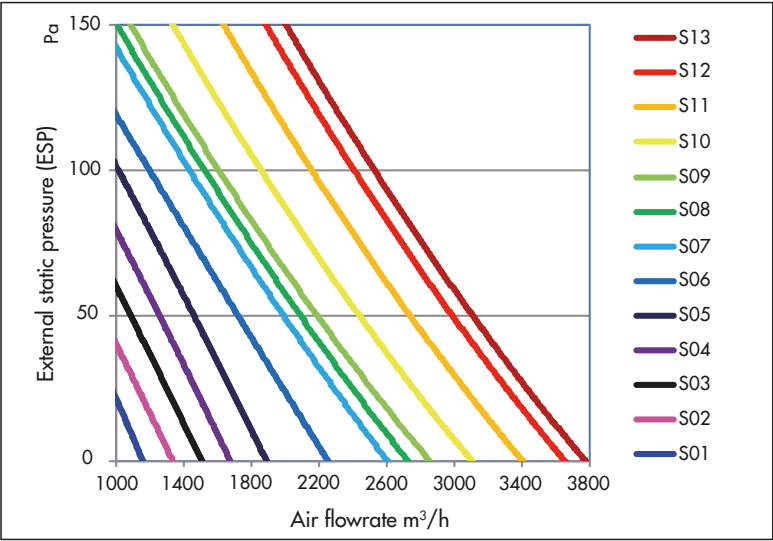
TECHNICAL DATA

Indoor unit model		ADG ECO 140PH		ADG ECO 140PH	
Outdoor unit model		AEG ECO 140PIH		AEG ECO 140PIH3	
	Units	Cooling	Heating	Cooling	Heating
Nominal capacity (EN14511)	kW	13,40	15,50	13,40	15,50
	BTU/h	45700	52800	45700	52800
EER/COP (EN14511)		3,01	3,37	2,85	3,48
Design Load (Pdesign c/Pdesign h) (Average) (EN14825)*	kW	13,40	15,50	13,40	15,50
Seasonal efficiency ratio (SEER/SCOP (Average) (EN14825)*		-	-	-	-
Energy efficiency class*		-	-	-	-
Seasonal energy consumption (Average)*	kWh/annum	-	-	-	-
Seasonal energy efficiency in cooling/heating (Average) ($\eta_{s,h}$)		242,40	141,6	242,40	141,6
Air flowrate Indoor (sh.-h.-m.-l.)	m ³ /h	2200-2000-1730-1490		2200-2000-1730-1490	
Dehumidification	l/h	3,0		3,0	
Fan speeds (Indoor/Outdoor)	n°	4/2		4/2	
Sound pressure Indoor (sh.-h.-m.-l.)	dB(A)	43-41-40-38		43-41-40-38	
Sound pressure Outdoor (h.)	dB(A)	56		56	
Sound power Indoor (sh.-h.-m.-l.)	dB(A)	68-66-55-53		68-66-55-53	
Sound power Outdoor (h.)	dB(A)	72		72	
Power supply	V/Ph/Hz	220-240/1/50 208-230/1/60		380-415/3/50-60	
Static pressure rated	Pa	50		50	
Static pressure range	Pa	0-150		0-150	
Power input	kW	4,45	4,60	4,70	4,45
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 (")	9,52 (3/8")		9,52 (3/8")	
Gas pipe diameter	mm (")	15,88 (5/8")		15,88 (5/8")	
Min.-max. pipe length with gas standard charge	m	7,5-9,5		7,5-9,5	
Max. pipe length with additional charge	m	75		75	
Additional refrigerant charge	g/m	40		40	
Max. height difference (Outdoor above)	m	30		30	
Max. height difference (Indoor above)	m	30		30	
Indoor net dimension (H./W./D.)	mm	300/1400/700		300/1400/700	
Outdoor net dimension (H./W./D.)	mm	820/940/460		820/940/460	
Net weight Indoor / Outdoor	Kg	49/95		49/95	

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.

STATIC PRESSURE CURVES

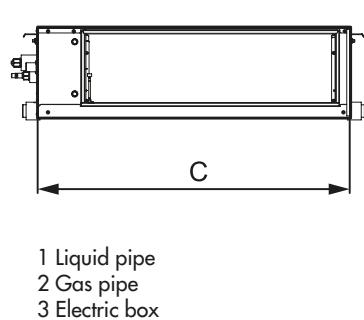
ADG ECO 140PH - static pressure curves



External static pressure	Turbo speed	High	Medium	Low
P1	S05	S03	S02	S01
P2	S06	S04	S03	S02
P3	S07	S05	S04	S03
P4	S08	S06	S05	S04
P5*	S09	S07	S06	S05
P6	S10	S08	S07	S06
P7	S11	S09	S08	S07
P8	S12	S10	S09	S08
P9	S13	S11	S10	S09

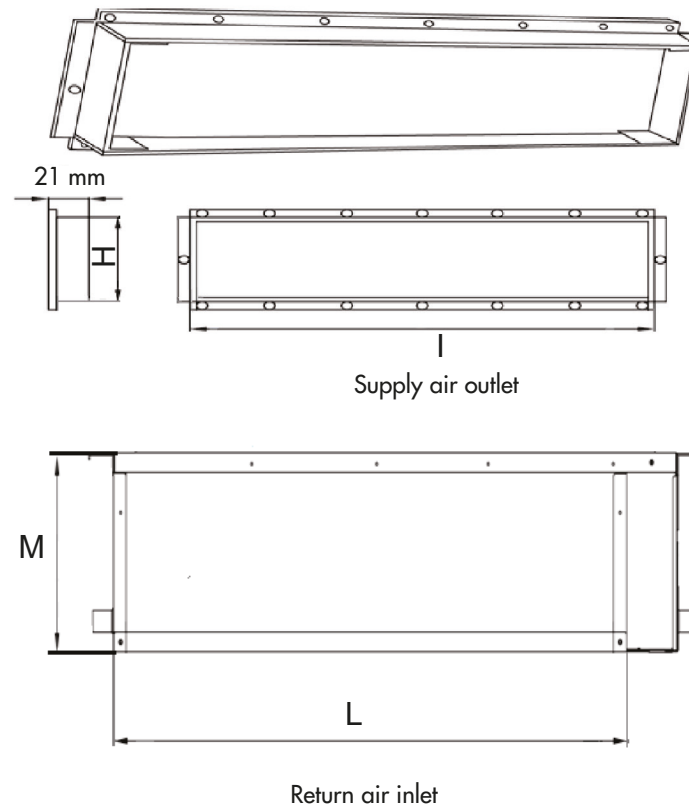
* Default static pressure level

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

[illegible]

MODEL	DIMENSIONS (mm)						
	A	B	C	D	E	F	G
ADG ECO 35PH	760	415	700	200	450	474	768
ADG ECO 50PH	1060	415	1000	200	450	474	1068
ADG ECO 70PH	1360	415	1300	220	450	474	1368
ADG ECO 85PH							
ADG ECO 70PHB	942	530	900	260	655	685	-
ADG ECO 85PHB							
GUD100PHS/A-T	1040	500	1000	300	700	754	1092
GUD140PHS/A-T	1440	500	1400	300	700	754	1492
GUD160PHS/A-T							1543

DIMENSIONAL DRAWINGS SUPPLY AIR OUTLET/RETURN AIR INLET



MODEL	SUPPLY AIR OUTLET		RETURN AIR INLET	
	H	I	L	M
ADG ECO 35PH	122	585	700	200
ADG ECO 50PH	122	885	1000	200
ADG ECO 70PH	142	1185	1300	220
ADG ECO 85PH				
ADG ECO 70PHB	219	743	900	260
ADG ECO 85PHB				
GUD100PHS/A-T	195	746	960	264
GUD140PHS/A-T	195	1150	1360	264
GUD160PHS/A-T				