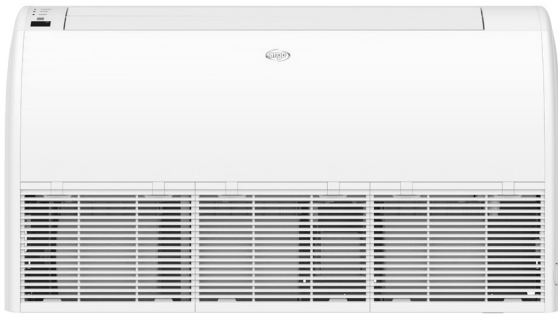


# FLOOR/CEILING



**IRC1F7C** (Standard)  
398100678  
Infrared remote controller



**SWC7AV** (Optional)  
398700039  
Wired controller with WiFi



**SWC52V** (Optional)  
398800104  
Centralized controller up to 36 units (it requires wired controller)



**EIXEGP** (Optional)  
398100683

Gateway Modbus

- 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.

<b>FAST</b> Quick cooling and heating	<b>Intelligent sensor</b>	<b>Quiet mode</b>	<b>3 sleep modes</b>	<b>iFeel</b>	<b>Cold air prevention</b>	<b>Double temperature sensors for air return</b>	<b>Intelligent defrosting</b>	<b>Auto mode</b>	<b>Filter cleaning reminder</b>	<b>Timer</b>	<b>Automatic swinging</b>	<b>Fixed swinging</b>
<b>Fan speed regulation</b>	<b>Automatic fan speed</b>	<b>Turbo fan speed</b>	<b>Dehumidification</b>	<b>Dehumidification 12°C</b>	<b>Save energy</b>	<b>WiFi and app (optional)</b>	<b>Centralized control</b>	<b>Remote control</b>	<b>Modbus</b>	<b>Auto restart memory</b>	<b>Access control interface</b>	<b>Dual wired controllers</b>
<b>Programmable wired controller</b>	<b>8°C heating</b>	<b>Auto diagnosis</b>	<b>Ambient temperature control</b>	<b>System parameters inquiry</b>	<b>Historical errors inquiry</b>	<b>Google Home Amazon Alexa (optional)</b>						

**A++** Cooling

**A+** Heating

## TECHNICAL DATA MATCHING WITH FLOOR CEILING UNITS

Indoor unit model		ACG ECO PLUS 35PH		ACG ECO PLUS 50PH	
Outdoor unit model		AEG ECO PLUS 35PIH		AEG ECO PLUS 50PIH	
	Units	Cooling	Heating	Cooling	Heating
Nominal (min.-max.) capacity (EN14511)	kW	3.50 (0.90-4.00)	4.00 (0.90-4.50)	5.30 (1.60-5.50)	5.60 (1.60-6.10)
	BTU/h	11900	13600	18000	19100
EER/COP (EN14511)		3.80	4.30	3.40	3.90
Design Load [Pdesign c/Pdesign h (Average)] (EN14825)*	kW	3.80	4.30	5.3	3.9
Seasonal efficiency ratio [SEER/SCOP (Average)] (EN14825)*		7.2	4.1	6.5	4.2
Energy efficiency class*		A++	A+	A++	A+
Seasonal energy consumption*	kWh/annum	170	1059	285	1300
Air flow rate Indoor (sh.-h.-m.-l.)	m <sup>3</sup> /h	650-580-500-400		900-800-700-600	
Dehumidification	l/h	1.1		1.7	
Fan speeds (Indoor/Outdoor)	n°	4/2		4/2	
Sound pressure Indoor (sh.-h.-m.-l.)	dB(A)	39-36-32-28		41-40-38-36	
Sound pressure Outdoor (h.)	dB(A)	48		59	
Sound power Indoor (sh.-h.-m.-l.)	dB(A)	49-46-42-38		59-57-54-51	
Sound power Outdoor (h.)	dB(A)	56		65	
Power supply	V/Ph/Hz	220-240~/1/50/60		220-240~/1/50/60	
Power input	kW	0.92	0.93	1.56	1.44
Maximum electrical power input	kW/A	1.30/6.00		1.90/9.50	
Compressor type		Rotary DC Inverter		Rotary DC Inverter	
Refrigerant type/GWP		R32/675		R32/675	
Refrigerant charge	kg/T.CO <sub>2</sub> eq.	0.57/0.39		0.85/0.57	
Liquid pipe diameter	mm (inch)	6.35 (1/4")		6.35 (1/4")	
Gas pipe diameter	mm (inch)	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		30	
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	665/870/235		665/870/235	
Outdoor net dimension (H./W./D.)	mm	553/675/285		555/745/300	
Net weight Indoor/Outdoor	kg	24/24.5		25/30.5	

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.

# TECHNICAL DATA

Indoor unit model		ACG ECO PLUS 71PH		ACG 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)	7.70 (2.20-8.40)	8.50 (2.90-9.00)	8.80 (2.50-9.50)
	BTU/h	24200	26200	29000	30000
EER/COP (EN14511)		3.70	4.00	3.40	3.90
Design Load [Pdesign c/Pdesign h (Average)] (EN14825)*	kW	7.1	4.7	8.5	6.0
Seasonal efficiency ratio [SEER/SCOP (Average)] (EN14825)*		7.2	4.3	6.8	4.5
Energy efficiency class*		A++	A+	A++	A+
Seasonal energy consumption*	kWh/annum	345	1530	438	1867
Air flow rate Indoor (sh.-h.-m.-l.)	m <sup>3</sup> /h	1250-1100-1000-900		1400-1300-1200-1000	
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)	41-39-37-35		46-45-43-39	
Sound pressure Outdoor (h.)	dB(A)	55		57	
Sound power Indoor (sh.-h.-m.-l.)	dB(A)	54-53-50-47		62-60-56-52	
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	1.95	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 <sub>2</sub> 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")	
Min.-max. pipe length with gas standard charge	m	3-5		3-5	
Max. pipe length 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	
Indoor net dimension (H./W./D.)	mm	665/1200/235		665/1200/235	
Outdoor net dimension (H./W./D.)	mm	660/889/340		660/889/340	
Net weight Indoor/Outdoor	kg	31/41.5		32/46	

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 unit model		ACG ECO PLUS 100PH		ACG ECO PLUS 100PH	
Outdoor unit model		AEG ECO PLUS 100PIH		AEG ECO PLUS 100PIH3	
	Units	Cooling	Heating	Cooling	Heating
Nominal (min.-max.) capacity (EN14511)	kW	10.00 (3.20-11.00)	11.50 (3.00-12.50)	10.00 (3.20-11.00)	11.50 (3.00-12.50)
	BTU/h	34100	39200	34100	39200
EER/COP (EN14511)		3.40	3.90	3.40	3.90
Design Load [Pdesign c/Pdesign h (Average)] (EN14825)*	kW	10.0	7.0	10.0	7.0
Seasonal efficiency ratio [SEER/SCOP (Average)] (EN14825)*		6.3	4.2	6.3	4.2
Energy efficiency class*		A++	A+	A++	A+
Seasonal energy consumption*	kWh/annum	556	2333	556	2333
Air flow rate Indoor (sh.-h.-m.-l.)	m <sup>3</sup> /h	1600-1500-1400-1200		1600-1500-1400-1200	
Dehumidification	l/h	3.3		3.3	
Fan speeds (Indoor/Outdoor)	n°	4/2		4/2	
Sound pressure Indoor (sh.-h.-m.-l.)	dB(A)	48-46-45-43		48-46-45-43	
Sound pressure Outdoor (h.)	dB(A)	55		55	
Sound power Indoor (sh.-h.-m.-l.)	dB(A)	65-63-61-59		65-63-61-59	
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	2.94	2.95	2.94	2.95
Maximum electrical power input	kW/A	4.70/21.00		4.40/7.00	
Compressor type		Rotary DC Inverter		Rotary DC Inverter	
Refrigerant type/GWP		R32/675		R32/675	
Refrigerant charge	kg/T.CO <sub>2</sub> eq.	2.10/1.42		2.1/1.42	
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 length with gas standard charge	m	5-7		5-7	
Max. pipe length with additional charge	m	75		75	
Additional refrigerant charge	g/m	20		20	
Max. height difference (Outdoor above)	m	30		30	
Max. height difference (Indoor above)	m	30		30	
Indoor net dimension (H./W./D.)	mm	665/1200/235		665/1200/235	
Outdoor net dimension (H./W./D.)	mm	820/940/370		820/940/370	
Net weight Indoor/Outdoor	kg	32/65		32/75	

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.

# 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.)	m <sup>3</sup> /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 <sub>2</sub> 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 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	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.

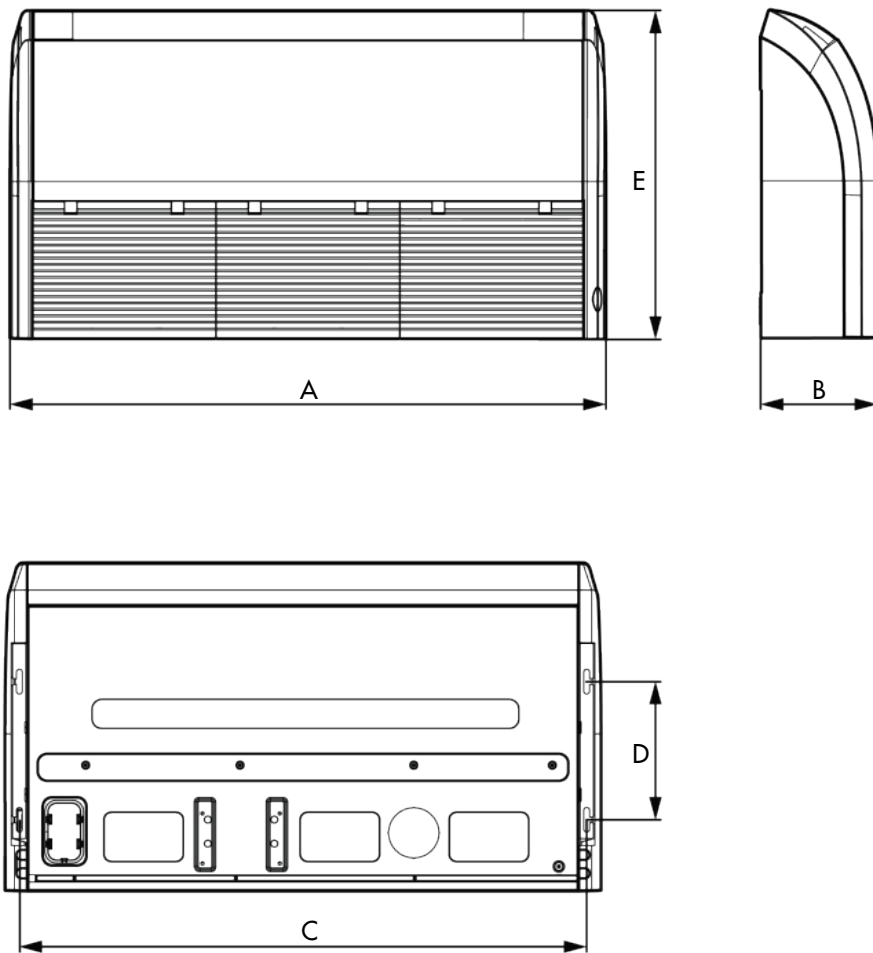
\*Data declared in accordance with COMMISSION REGULATION (EU) 2016/2281 of 30 November 2016 implementing Directive 2009/125/EC of the European Parliament and of the Council establishing a framework for the setting of ecodesign requirements for energy-related products, with regard to ecodesign requirements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

Indoor unit model		ACG ECO PLUS 160PH	
Outdoor unit model		AEG ECO PLUS 160PIH3	
	Units	Cooling	Heating
Nominal (min.-max.) capacity (EN14511)	kW	16.00 (4.80-17.00)	17.00 (4.50-18.00)
	BTU/h	54500	58000
EER/COP (EN14511)		3.02	3.54
Rated capacity (Prated,c/Prated,h)*		16.0	17.0
Seasonal space energy efficiency (ηs,c/ηs,h)*	%	235.5	153.9
Air flow rate Indoor (sh.-h.-m.-l.)	m <sup>3</sup> /h	2400-2200-1900-1600	
Dehumidification	l/h	4.8	
Fan speeds (Indoor/Outdoor)	n°	4/2	
Sound pressure Indoor (sh.-h.-m.-l.)	dB(A)	54-49-48-44	
Sound pressure Outdoor (h.)	dB(A)	60	
Sound power Indoor (sh.-h.-m.-l.)	dB(A)	68-66-62-58	
Sound power Outdoor (h.)	dB(A)	75	
Power supply	V/Ph/Hz	380-415~/3/50/60	
Power input	kW	5.40	5.40
Maximum electrical power input	kW/A	6.80/12.00	
Compressor type		Rotary DC Inverter	
Refrigerant type/GWP		R32/675	
Refrigerant charge	kg/T.CO <sub>2</sub> eq.	3.5/2.363	
Liquid pipe diameter	mm (inch)	9.52 (3/8")	
Gas pipe diameter	mm (inch)	15.88 (5/8")	
Min.-max. pipe lenght with gas standard charge	m	7.5-9.5	
Max. pipe lenght with additional charge	m	75	
Additional refrigerant charge	g/m	35	
Max. height difference (Outdoor above)	m	30	
Max. height difference (Indoor above)	m	30	
Indoor net dimension (H./W./D.)	mm	665/1570/235	
Outdoor net dimension (H./W./D.)	mm	960/990/370	
Net weight Indoor/Outdoor	kg	42/94	

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.

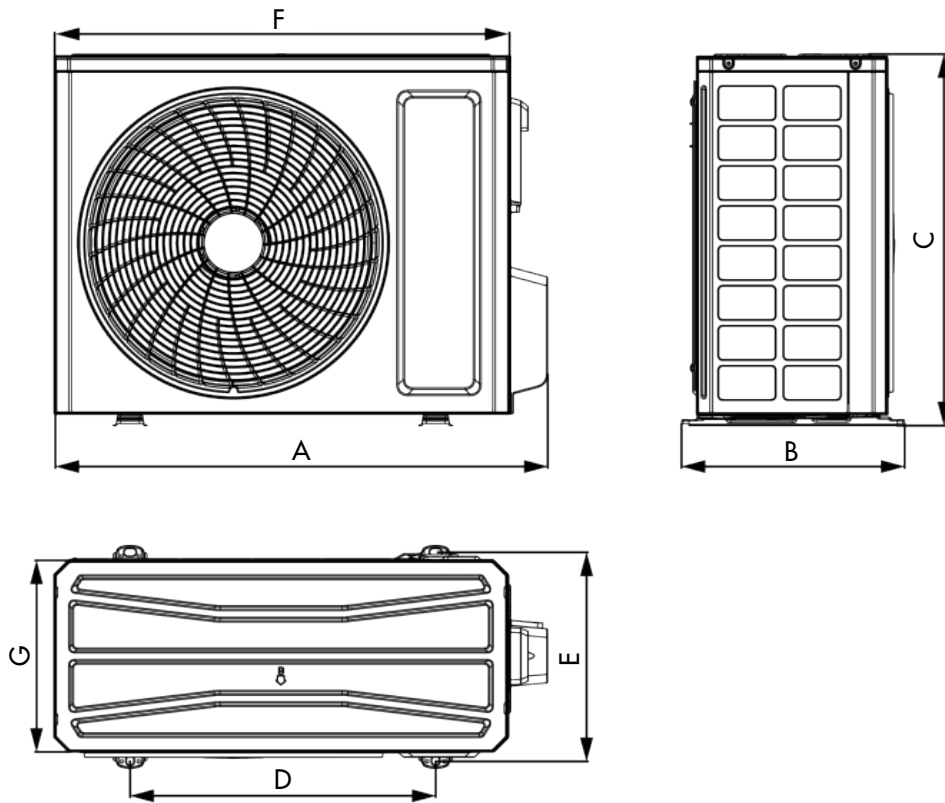
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# INDOOR UNITS DIMENSIONAL DRAWING



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

# 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