SGE

Monosplit

Cooling capacity 2,8 ÷ 5,9 kW
Heating capacity 2,9 ÷ 6,0 kW

- **New R32 ecological refrigerant gas.**
- **Air Purifiers (Cold Plasma).**
- **Possibility of Wi-Fi control.**
- **Innovative design sleek curved lines.**
- **Special coil with fin golden coating.**

DESCRIPTION

The monosplit air conditioners of the SGE range are combined with SGE_W (Wall) indoor units for wall installation.
The external unit boasts a compressor with inverter technology.

FEATURES

Innovative design

SGE has an elegant and essential design. Its curved lines emphasize a kind of structure with innovative and functional style. The display with working parameters is elegantly integrated in the satin-finish cover and visible only when the unit is on.

Indoor unit

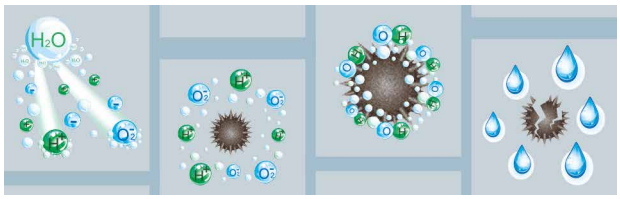
Wall indoor unit designed to be installed on indoor walls.
— Remote control standard supply with each indoor unit.
— Fan with DC inverter technology.
— Regenerable air filter easy to remove and clean.
— Timer for programming switch-off and switch-on.
— Auxiliary emergency command integrated into the unit.
— Indoor unit front panel with LED display and indicator lights.
— 3-speed fan, to meet every possible need.
— **Auto** function for a continuous speed variation.
— **Turbo** function to attain the desired temperature as quickly as possible.
— **Sleep** night time function well-being program.
— **Anti-freeze** function that allows you to keep an inside minimum temperature of 8 °C in winter.
— **followMe** function for activating the ambient temperature probe inside the remote control, for improved comfort.

Outdoor unit

Monosplit air conditioner.
Reversible air/air heat pump with DC inverter technology.
Compressor and fan with DC inverter technology.

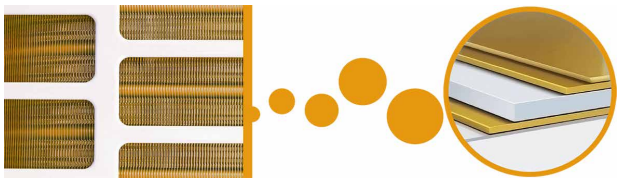
Air Purifiers (Cold Plasma)

Capable of reducing pollutants breaking down their molecules using electric discharges, causing the splitting of the water molecules in the air into positive and negative ions. These ions neutralise the molecules of the gaseous pollutants obtaining products that are normally present in clean air. The device can eliminate 90% of bacteria. The result is clean, ionised air that has no bad odours.



Special golden fin coil

Unlike normal batteries, this special golden epoxy coating silicon free is able to protect the heat exchanger against rust and corrosion, in areas where the air has a high salt content.



Nethome Plus app

Using the specific **accessory**, the system offers wi-fi control thanks to the app for iOS and Android devices (available free on Apple Store and Google Play). The system can be controlled from a distance directly on your smartphone or tablet, or via Cloud with the aid of a wireless router connected to the Internet.

General features

- New R32 ecological refrigerant gas with low GWP.
- Operating mode: cooling, heating, dehumidification, automatic and fan only.
- Particularly quiet operation.
- Microproccessor control.
- Auto-restart function.
- Self-diagnosis function.
- Refrigerant lines with flared connections.
- Easy installation and maintenance.

ACCESSORIES

WIFIKEY: Plug & Play module to be installed in the indoor unit for Wi-Fi control.

Accessories compatibility

Accessory	SGE250W	SGE350W	SGE500W	SGE700W
WIFIKEY	•	•	•	•

PERFORMANCE SPECIFICATIONS

Indoor unit		SGE250W	SGE350W	SGE500W	SGE700W
Outdoor unit		**SGE250**	**SGE350**	**SGE500**	**SGE700**
Indoor unit quantity		**1**	**1**	**1**	**1**
Outdoor unit quantity		**1**	**1**	**1**	**1**
Nominal cooling performances					
Cooling capacity (1)	kW	2,77	3,46	5,27	5,86
Cooling input power (1)	kW	0,77	1,06	1,55	1,81
EER (2)	W/W	3,60	3,25	3,40	3,24
Moisture removed	l/h	1,00	1,20	1,80	2,70
Minimum cooling performances					
Cooling capacity	kW	0,91	1,11	3,39	2,08
Cooling input power	kW	0,10	0,13	0,56	0,42
Maximum cooling performances					
Cooling capacity	kW	3,39	4,16	5,83	7,91
Cooling input power	kW	1,24	1,58	2,05	3,15
Cooling input current	A	3,3	4,6	6,7	7,9
Seasonal efficiency					
SEER	W/W	6,30	6,40	7,40	6,80
Efficiency energy class (3)		A++	A++	A++	A++
Annual power consumption	kWh/annum	156	190	247	300
Nominal heating performances					
Heating capacity (4)	kW	2,93	3,57	4,97	6,00
Heating input power (4)	kW	0,73	0,96	1,29	1,61
COP (2)	W/W	4,00	3,71	3,83	3,73
Minimum heating performances					
Heating capacity	kW	0,82	1,08	3,10	1,61
Heating input power	kW	0,12	0,10	0,78	0,30
Maximum heating performances					
Heating capacity	kW	3,37	4,22	5,85	7,91
Heating input power	kW	1,20	1,68	2,00	2,75
Heating input current	A	3,2	4,2	5,6	7,0
Seasonal efficiency (temperate climate)					
SCOP	W/W	4,000	4,000	4,000	4,000
Efficiency energy class (3)		A+	A+	A+	A+
Annual power consumption	kWh/annum	910	945	1435	1818
Seasonal efficiency (hot climate)					
SCOP	W/W	5,100	5,100	5,100	5,000
Efficiency energy class (3)		A+++	A+++	A+++	A++
Annual power consumption	kWh/annum	714	686	1260	1705

(1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
(2) EER/COP in accordance with the Standard (EN 14511), only declared for the purposes of the tax deductions in force at the time of this publication.
(3) Data in accordance with Delegated Regulation (EU) No. 626/2011.
(4) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.

INDOOR UNIT

		SGE250W	SGE350W	SGE500W	SGE700W
Indoor unit					
Type of fan	type		Tangential		
Air flow rate					
Maximum	m^3/h	466	540	840	980
Average	m^3/h	360	430	680	817
Minimum	m^3/h	325	314	540	662
Sound power (1)					
Maximum	dB(A)	54,0	55,0	56,0	59,0
Sound pressure (1 m) (2)					
Maximum	dB(A)	38,5	40,5	42,5	45,0
Average	dB(A)	32,0	34,5	36,0	40,5
Minimum	dB(A)	25,0	25,0	26,0	36,0

(1) Sound power calculated in free field, in accordance with UNI EN ISO 3744.
(2) Sound pressure measured in semi anechoic chamber at a distance of 1 m from the source.

OUTDOOR UNIT

		SGE250	SGE350	SGE500	SGE700
Outdoor unit					
Type of fan	type	Axial	Axial	Axial	Axial
Air flow rate					
Maximum	m^3/h	1.750	1.800	2.100	3.500
Sound power (1)					
Maximum	dB(A)	62,0	63,0	63,0	67,0
Sound pressure (1 m) (2)					
Maximum	dB(A)	55,5	56,0	56,0	59,0
Compressor					
Type	type	Inverter rotary	Inverter rotary	Inverter rotary	Inverter rotary
Refrigerant	type	R32	R32	R32	R32
Refrigerant charge	kg	0,55	0,55	1,08	1,42
Potential global heating (GWP)		675kgCO_2eq	675kgCO_2eq	675kgCO_2eq	675kgCO_2eq
Equivalent CO_2	tCO_2eq	0,37	0,37	0,73	0,96

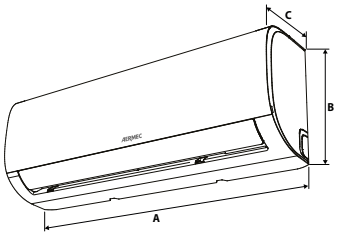
(1) Sound power calculated in free field, in accordance with UNI EN ISO 3744.
(2) Sound pressure measured in semi anechoic chamber at a distance of 1 m from the source.

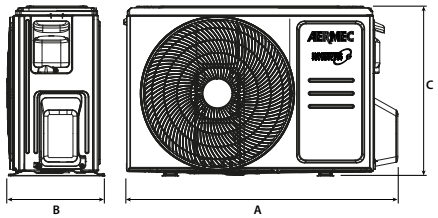
GENERAL DATA

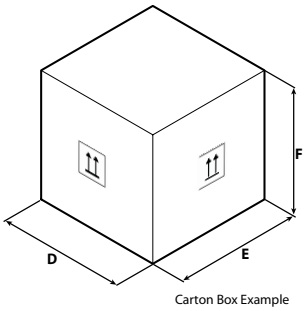
Indoor unit		**SGE250W**	**SGE350W**	**SGE500W**	**SGE700W**
Outdoor unit		**SGE250**	**SGE350**	**SGE500**	**SGE700**
Indoor unit quantity		**1**	**1**	**1**	**1**
Outdoor unit quantity		**1**	**1**	**1**	**1**
Electric data					
Rated power input (1)	kW	2,20	2,20	2,50	3,50
Rated current input (1)	A	10,0	10,0	13,0	15,5
Refrigeration pipework					
Diameter of liquid refrigerant connections	mm (inch)	6,35 (1/4")	6,35 (1/4")	6,35 (1/4")	9,52 (3/8")
Diameter of refrigerant gas connections	mm (inch)	9,52 (3/8")	9,52 (3/8")	12,7 (1/2")	15,9 (5/8")
Maximum refrigerant tube length	m	25	25	30	50
Maximum refrigerant line level difference	m	10,0	10,0	20,0	25,0
Refrigerant to be added	g/m	12	12	12	24
Power supply					
Power supply	V/Ph/Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz

(1) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.

DIMENSIONS AND WEIGHTS







Carton Box Example

		SGE250W	SGE350W	SGE500W	SGE700W
Indoor unit					
A	mm	805	805	957	1040
B	mm	285	285	302	327
C	mm	194	194	213	220
D	mm	870	870	1035	1120
E	mm	270	270	295	405
F	mm	365	365	385	315
Net weight	kg	7,6	7,6	10,0	12,3
Weight for transport	kg	9,7	9,8	13,0	15,8

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