

SBG

Monosplit

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

- Refrigerant gas R32
- Standard Wi-Fi module.
- Modern design to blend with all furnishing styles.
- Special coil with fin blue coating.
- Indoor units compatible with multisplit systems.
- Control option via the ModBus protocol.



DESCRIPTION

The monosplit air conditioners of the SBG range are combined with SBG_W (Wall) indoor units for wall installation.

Universal indoor units: some indoor units can be combined with both multisplit outdoor units of the series MPG and monosplit outdoor units of the series SBG:

	Indoor units SBG_W				
	SBG200W	SBG250W	SBG350W	SBG500W	SBG700W
Monosplit outdoor units SBG		•	•	•	•
Multisplit outdoor units MPG	•	•	•	•	•

The external unit boasts a compressor and a fan with inverter technology.

FEATURES



Indoor unit

Wall indoor unit designed to be installed on indoor walls.

- Every indoor unit comes with a remote control and a remote control holder.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Indoor unit front panel with LED display and indicator lights.
- 4-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.
- **X-fan** prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.

- **Anti-freeze** function that allows you to keep an inside minimum temperature of 8 °C in winter.
- **iFeel** 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.

X-fan function

This self-cleaning system foresees that the fan of the indoor unit continues its operation for a few minutes after the unit is turned off, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.



Smart APP Ewpe

This system is fitted **standard** with a wi-fi module that can be used, along with the app for iOS and Android devices (available free on Apple Store and Google Play), to control the system remotely on your smartphone or tablet, or via Cloud with the aid of a wireless router connected to the Internet.



Special blue fin coil

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



General features

- Operating mode: cooling, heating, dehumidification, automatic and fan only.
- Particularly quiet operation.
- Microprocessor control.
- Auto-restart function.
- Self-diagnosis function.
- Refrigerant lines with flared connections.
- Easy installation and maintenance.

ACCESSORIES

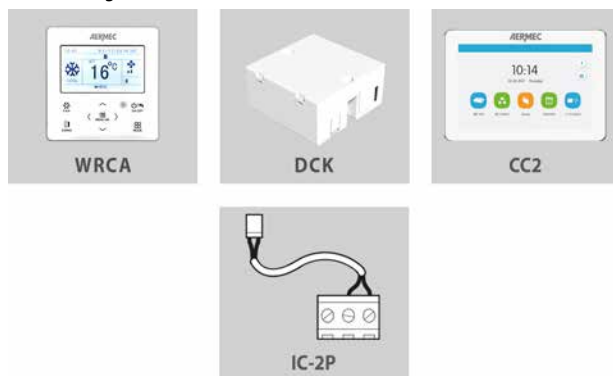
CC2: Centralised control with 7" touchscreen display for managing several indoor units within a number of multisplit systems. The centralised control has an integrated external contact. For more information, refer to the specific documentation.*

WRCA: Wired panel with liquid crystal display and soft-touch buttons. This accessory can be used to control not only the traditional system functions but also a weekly timer with a maximum of 8 daily time bands.

***The CC2 centralised control can manage up to 36 SBG system.**

In order to use accessory CC2, for each indoor unit, the WRCA wired panel (accessory) must be installed, with the IC-2P adapter accessory.

DCK: Remote Contact Kit. This accessory allows you to switch the system on and off using an external contact.



Accessories compatibility

SBG_W

Accessory	SBG250W	SBG350W	SBG500W	SBG700W	
CC2 (1)	.	.	.	.	
WRCA (1)	.	.	.	.	
(1) Auto-restart function.					
Accessory	SBG200W	SBG250W	SBG350W	SBG500W	SBG700W
IC-2P	.	.	.	.	.
Accessory	SBG250W	SBG350W	SBG500W	SBG700W	
DCK	.	.	.	.	

PERFORMANCE SPECIFICATIONS

Indoor unit		SBG250W	SBG350W	SBG500W	SBG700W
Outdoor unit		SBG250	SBG350	SBG500	SBG700
Nominal cooling performances					
Cooling capacity	kW	2,50	3,20	4,60	6,20
Cooling input power	kW	0,66	0,99	1,35	1,79
EER	W/W	3,79	3,23	3,40	3,47
Minimum cooling performances					
Cooling capacity	kW	0,50	0,90	1,00	1,80
Cooling input power	kW	0,15	0,22	0,15	0,40
Maximum cooling performances					
Cooling capacity	kW	3,25	3,70	5,40	6,60
Cooling input power	kW	1,30	1,38	1,90	2,10
Nominal cooling performances					
Cooling input current	A	3,1	4,9	6,2	7,6
Seasonal efficiency					
SEER	W/W	6,80	6,50	7,20	7,20
Efficiency energy class		A++	A++	A++	A++
Annual power consumption	kWh/annum	129	172	224	302
Nominal cooling performances					
Moisture removed	l/h	0,60	1,40	1,80	1,80
Nominal heating performances					
Heating capacity	kW	2,80	3,40	5,20	6,50
Heating input power	kW	0,70	0,92	1,33	1,65
COP	W/W	4,00	3,71	3,90	3,95
Minimum heating performances					
Heating capacity	kW	0,50	0,90	0,75	1,30
Heating input power	kW	0,14	0,22	0,16	0,40
Maximum heating performances					
Heating capacity	kW	3,80	4,20	5,80	7,20
Heating input power	kW	1,50	1,45	1,90	2,20
Nominal heating performances					
Heating input current	A	3,2	4,4	6,1	7,3
Seasonal efficiency (temperate climate)					
SCOP	W/W	4,10	4,10	4,00	4,20
Efficiency energy class		A+	A+	A+	A+
Annual power consumption	kWh/annum	854	922	1295	1532

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.

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.

Data in accordance with Delegated Regulation (EU) No. 626/2011.

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.

GENERAL DATA

Indoor unit		SBG250W	SBG350W	SBG500W	SBG700W
Outdoor unit		SBG250	SBG350	SBG500	SBG700
Electric data					
Rated power input	kW	1,50	1,45	1,90	2,20
Rated current input	A	7,5	6,7	8,5	12,0
Refrigerant lines					
Diameter of liquid refrigerant connections	mm (inch)	6,35 (1/4")	6,35 (1/4")	6,35 (1/4")	6,35 (1/4")
Diameter of refrigerant gas connections	mm (inch)	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	12,7 (1/2")
Maximum refrigerant tube length	m	15	20	25	25
Maximum refrigerant line level difference	m	10,0	10,0	10,0	10,0
Maximum length of refrigerant lines without addition of refrigerant	m	5	5	5	5
Additional refrigerant charge	g/m	16,0	16,0	16,0	16,0
Power supply					
Power supply	V/Ph/Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz
Power supply cable					
Recommended circuit breaker	A	10,0	10,0	16,0	16,0
Recommended power cord	mm ²	3G1,5	3G1,5	3G2,5	3G2,5
Recommended communication cable ODU/IDU	mm ²	4G1,5	4G1,5	4G1,5	4G1,5
General data					
Climate class		T1	T1	T1	T1

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.

The thermomagnetic switch and the cross-section of the cables are dimensioned in relation to the maximum input current; this value indicates the maximum input current while the unit is working.

INDOOR UNIT DATA

		SBG250W	SBG350W	SBG500W	SBG700W
Electric data					
Rated power input	W	20	20	45	45
Indoor unit					
Type of fan	type	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Air flow rate					
Turbo	m ³ /h	500	590	1.000	1.050
Maximum	m ³ /h	470	520	960	900
Average	m ³ /h	390	400	810	690
Minimum	m ³ /h	270	320	640	590
Sound power (cooling)					
Turbo	dB(A)	55,0	57,0	60,0	65,0
Maximum	dB(A)	51,0	49,0	58,0	61,0
Average	dB(A)	46,0	45,0	54,0	57,0
Minimum	dB(A)	38,0	38,0	44,0	51,0
Sound pressure (cooling)					
Turbo	dB(A)	40,0	41,0	47,0	50,0
Maximum	dB(A)	38,0	37,0	45,0	46,0
Average	dB(A)	33,0	33,0	41,0	42,0
Minimum	dB(A)	25,0	26,0	30,0	36,0
Sound power (heating)					
Turbo	dB(A)	55,0	53,0	60,0	65,0
Maximum	dB(A)	52,0	49,0	58,0	63,0
Average	dB(A)	47,0	45,0	52,0	60,0
Minimum	dB(A)	42,0	40,0	50,0	53,0
Sound pressure (heating)					
Turbo	dB(A)	39,0	41,0	46,0	47,0
Maximum	dB(A)	36,0	37,0	44,0	45,0
Average	dB(A)	32,0	33,0	38,0	42,0
Minimum	dB(A)	26,0	28,0	36,0	35,0
Indoor unit					
Condensate discharge diameter	mm	16,0	16,0	16,0	16,0

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.

Sound pressure measured in semi anechoic chamber at a distance of 1 m from the source, according to EN 12102.

Sound power measured in semi anechoic chamber at a distance of 1 m from the source, according to EN 12102.

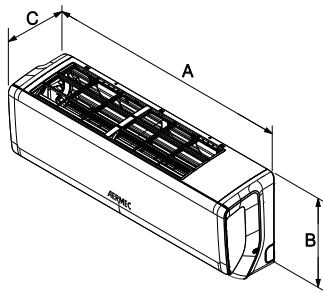
OUTDOOR UNIT DATA

		SBG250	SBG350	SBG500	SBG700
Outdoor unit					
Type of fan	type	Axial	Axial	Axial	Axial
Air flow rate outdoor unit					
Maximum	m ³ /h	1.950	1.950	2.100	2.800
Sound power					
Maximum	dB(A)	61,0	63,0	65,0	69,0
Sound pressure					
Maximum	dB(A)	51,0	52,0	55,0	59,0
Compressor					
Type	type	Inverter rotary	Inverter rotary	Inverter rotary	Inverter rotary
Refrigerant	type	R32	R32	R32	R32
GWP	kgCO ₂ -eq.	675	675	675	675
Refrigerant charge	kg	0,48	0,60	0,77	1,00
Equivalent CO ₂	t	0,320	0,410	0,520	0,680

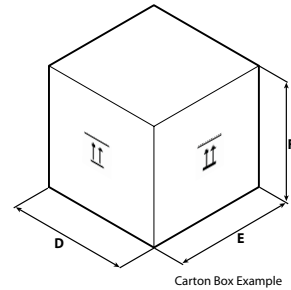
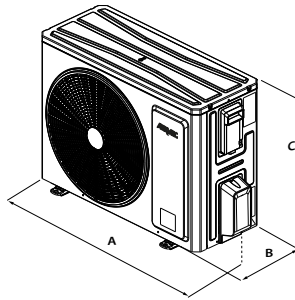
Sound pressure measured in semi anechoic chamber at a distance of 1 m from the source, according to EN 12102.

Sound power measured in semi anechoic chamber at a distance of 1 m from the source, according to EN 12102.

DIMENSIONS AND WEIGHTS



SBG_W



Carton Box Example

		SBG250W	SBG350W	SBG500W	SBG700W
Indoor unit					
A	mm	740	815	992	992
B	mm	260	260	333	333
C	mm	190	190	252	252
D	mm	796	871	1051	1051
E	mm	332	332	406	406
F	mm	265	265	328	328
Net weight	kg	7,5	8,0	13,5	14,0
Weight for transport	kg	9,0	9,5	16,0	16,5
		SBG250	SBG350	SBG500	SBG700
Outdoor unit					
A	mm	732	732	732	873
B	mm	330	330	330	376
C	mm	555	555	555	555
D	mm	794	794	794	951
E	mm	376	376	376	431
F	mm	615	615	615	620
Net weight	kg	23,5	24,5	27,5	36,0
Weight for transport	kg	26,0	27,0	30,0	39,0

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