

MGE

Multisplit

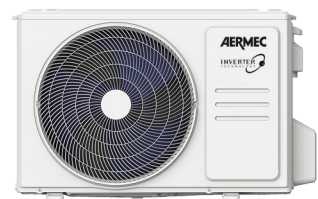
Cooling capacity 4,1 ÷ 7,9 kW
Heating capacity 4,4 ÷ 8,2 kW

- New R32 ecological refrigerant gas.
- Wi-fi control using the relative accessory.
- Special golden fin coil.

SGE_W



MGE



DESCRIPTION

The multisplit air conditioners of the MGE range are combined with:
— SGE_W unit **wall**, for wall installation.

TYPE OF INDOOR UNIT

Indoor unit SGE_W

Wall indoor unit designed to be installed on indoor walls. SGE_W 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.



Features

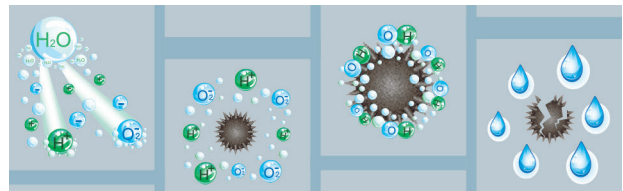
- Remote control standard supply with each indoor unit.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Auxiliary emergency command integrated into the unit.
- Indoor unit front panel with LED display and indicator 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.

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 gas-

eous 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.

Not available for SGE200W



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.

TYPE OF OUTDOOR UNIT

Outdoor unit

Multisplit air conditioner.
Reversible air/air heat pump with DC inverter technology.

Types

- **Dualsplit:** outdoor units MGE420 and MGE520 can be combined with 2 indoor units.
- **Trialsplit:** outdoor units MGE630 and MGE830 can be combined with 2 or 3 indoor units.

ACCESSORIES COMPATIBILITY

Accessory	SGE200W	SGE250W	SGE350W	SGE500W
WIFIKEY	•	•	•	•

ALLOWED COMBINATIONS OF INDOOR UNITS

For trialsplit MGE units, it is mandatory to install at least 2 indoor units for correct functioning of the system.

- Particularly quiet operation.
- Microprocessor control.
- Auto-restart function.
- Self-diagnosis function.
- Air filter easily removed and cleaned.
- Systems with multi-line refrigerant connections, where every indoor unit is connected directly to the outdoor unit via dedicated refrigerant lines.
- Easy installation and maintenance.

Low cooling function

cooling operation with outdoor temperatures down to -15 °C

Low heating function

heating with external temperatures up to -15 °C.

General features

- Compressor and fan with DC inverter technology.
- Fitted with an electronic expansion valve.

ACCESSORIES

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

For further information, please refer to the technical documentation on the website www.aermec.com

MGE420 (14kBtu/h)	MGE520 (18kBtu/h)	MGE630 (21kBtu/h)		MGE830 (27kBtu/h)	
No. indoor unit					
2	2	2	3	2	3
7+7	7+7	7+7	7+7+7	7+7	7+7+7
7+9	7+9	7+9	7+7+9	7+9	7+7+9
7+12	7+12	7+12	7+7+12	7+12	7+7+12
9+9	9+9	7+18	7+9+9	7+18	7+9+9
9+12	9+12	9+9	9+9+9	9+9	7+9+12
	12+12	9+12	7+9+12	9+12	7+12+12
		9+18		9+18	9+9+9
		12+12		12+12	9+9+12
				12+18	9+12+12
					12+12+12
					7+7+18
					7+9+18

Reference combinations

OUTDOOR UNIT PERFORMANCE DATA

		MGE420	MGE520	MGE630	MGE830
Nominal cooling performances					
Cooling capacity (1)	kW	4,10	5,30	6,15	7,90
Cooling input power (1)	kW	1,27	1,64	1,91	2,45
EER (2)	W/W	3,23	3,23	3,23	3,23
Minimum cooling performances					
Cooling capacity	kW	1,47	2,29	1,99	3,18
Cooling input power	kW	0,12	0,69	0,18	0,29
Maximum cooling performances					
Cooling capacity	kW	4,98	5,71	6,59	8,21
Cooling input power	kW	1,67	2,00	2,20	3,10
Seasonal efficiency					
SEER	W/W	5,60	6,10	6,10	6,10
Efficiency energy class (3)		A+	A++	A++	A++
Annual power consumption	kWh/annum	258	309	350	453
Nominal heating performances					
Heating capacity (4)	kW	4,40	5,57	6,45	8,20
Heating input power (4)	kW	1,27	1,50	1,74	2,21
COP (2)	W/W	3,71	3,71	3,71	3,71
Minimum heating performances					
Heating capacity	kW	1,52	2,40	1,99	2,29
Heating input power	kW	0,12	0,60	0,35	0,37
Maximum heating performances					
Heating capacity	kW	4,98	5,74	6,68	8,50
Heating input power	kW	1,67	1,78	1,80	2,90
Seasonal efficiency (temperate climate)					
SCOP	W/W	3,80	3,80	4,00	4,00
Efficiency energy class (3)		A	A	A+	A+
Annual power consumption	kWh/annum	1400	1768	1910	1960
Power supply					
Outdoor unit power supply		220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz

- (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.

Outdoor unit technical data

		MGE420	MGE520	MGE630	MGE830
Outdoor unit					
Type of fan	Type	Axial	Axial	Axial	Axial
Air flow rate					
Maximum	m ³ /h	2100	2100	3000	3000
Sound power (1)					
Maximum	dB(A)	64,0	65,0	65,0	67,0
Sound pressure (1 m) (2)					
Maximum	dB(A)	56,0	54,0	58,0	58,0
Compressor					
Type	type	Inverter rotary	Inverter rotary	Inverter rotary	Inverter rotary
Refrigerant	type	R32	R32	R32	R32
Refrigerant charge	kg	1,10	1,25	1,50	1,85
Potential global heating	GWP	675kgCO ₂ eq	675kgCO ₂ eq	675kgCO ₂ eq	675kgCO ₂ eq
Equivalent CO ₂	t	0,74	0,84	1,01	1,24
Outdoor unit					
Condensate discharge diameter	mm	16,0	16,0	16,0	16,0

- (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 general technical data

		MGE420	MGE520	MGE630	MGE830
Electric data					
Rated power input (1)	kW	2,80	3,10	3,90	4,10
Rated current input (1)	A	12,0	13,0	17,0	18,0
Refrigeration pipework					
Maximum refrigerant tube length	m	40	40	60	60
Maximum single cooling line length	m	25	25	30	30
Refrigerant to be added	g/m	12	12	12	12
Maximum unit (indoor/external) cooling line level difference in height	m	10,0	10,0	10,0	10,0
Maximum (indoor/outdoor) cooling line level difference	m	15,0	15,0	15,0	15,0
Diameter of liquid refrigerant connections	mm (inch)			6,35 (1/4")	
Diameter of refrigerant gas connections	mm (inch)			9,52 (3/8")	

- (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.

INDOOR UNIT PERFORMANCE DATA

SGE_W

		SGE200W	SGE250W	SGE350W	SGE500W
Nominal cooling performances					
Cooling capacity (1)	kW	2,05	2,77	3,46	5,27
Nominal heating performances					
Heating capacity (2)	kW	2,34	2,93	3,57	4,97
Indoor unit					
Type of fan	Type	Tangential	Tangential	Tangential	Tangential
Air flow rate					
Maximum	m ³ /h	460	466	540	840
Average	m ³ /h	360	360	430	680
Minimum	m ³ /h	325	325	314	540
Sound power (3)					
Maximum	dB(A)	54,0	54,0	55,0	56,0
Average	dB(A)	-	-	-	-
Minimum	dB(A)	-	-	-	-
Sound pressure (1 m) (4)					
Minimum	dB(A)	21,0	25,0	25,0	26,0
Maximum	dB(A)	40,0	38,5	40,5	42,5
Average	dB(A)	26,0	32,0	34,5	36,0
Refrigeration pipework					
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")
Power supply					
Indoor unit power supply		220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz

(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) 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.

(3) Sound power calculated in free field, in accordance with UNI EN ISO 3744.

(4) Sound pressure measured in semi anechoic chamber at a distance of 1 m from the source.

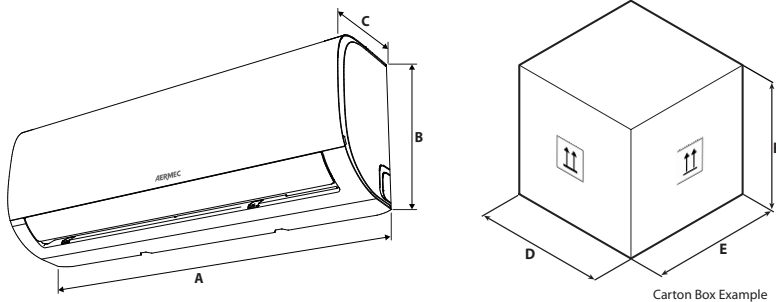
ADAPTERS SUPPLIED WITH THE OUTDOOR UNIT

Unit	MGE420	MGE520	MGE630	MGE830	Connections mm (inch)	
					Outdoor unit	Indoor unit
Quantity	0	0	1	1	9,52mm (3/8")	12,7mm (1/2")

For further information, please refer to the technical documentation on the website www.aermec.com

INDOOR UNIT WEIGHTS AND DIMENSIONS

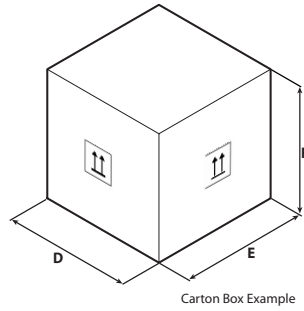
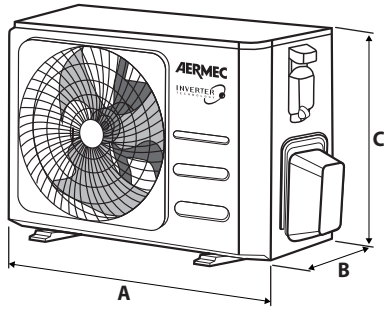
SGE_W



		SGE200W	SGE250W	SGE350W	SGE500W
Indoor unit					
A	mm	805	805	805	957
B	mm	285	285	285	302
C	mm	194	194	194	213
D	mm	870	870	870	1035
E	mm	270	270	270	295
F	mm	360	365	365	385
Net weight	kg	7,9	7,6	7,6	10,0
Weight for transport	kg	9,7	9,7	9,8	13,0

OUTDOOR UNIT WEIGHTS AND DIMENSIONS

MGE



		MGE420	MGE520	MGE630	MGE830
Outdoor unit					
A	mm	877	877	1003	1003
B	mm	349	349	380	380
C	mm	554	554	673	673
D	mm	915	915	1030	1030
E	mm	370	370	438	438
F	mm	615	615	750	750
Net weight	kg	31,6	35,0	43,3	48,0
Weight for transport	kg	34,7	38,0	47,1	51,8

Aermec reserves the right to make any modifications deemed necessary.
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