Product Guide 2024

Split System and VRF Systems

AIR CONDITIONING SOLUTIONS

AERMEC

The Aermec world

Experience, ideas and original solutions; skills and flexibility to meet the various market requests for a well-being that safeguards the environment whilst respecting the very clear values that Giordano Riello always based his choices on after setting up Aermec in 1961.

Giordano Riello International Group (GRIG), that Aermec is part of, boasts a turnover of more than € 440 million, over 1700 employees and 8 production sites, and it distributes its products via a global sales network. With 6 foreign subsidiaries, 54 sales outlets and 81 After Sales Service points in Italy and more than 80 international distributors, Aermec guarantees worldwide cover in terms of consultancy and assistance for every type of clientèle.

The GRIG Group

480 *million turnover*

8 *production sites*

1850 *Employees*

6 *foreign subsidiaries*

54 *sales outlets in Italy*

80 *After Sales Service points in Italy*

+70 *international distributors*

Why choose Aermec?

Design support

Aermec offers a prompt, constant service that guarantees the integration of its products with your design in the best and most efficient way.

Pre-sales

To guide its customers in the choice of the system most suited to their own specific needs, Aermec has a trained, skilled pre-sales team.

Taking full advantage of the consolidated technical/commercial structure that has proved to be a great benefit over the years for customers in the hydronics sector, the company has chosen to continue with this organisation in the direct expansion field too.

Pre-sales technicians, aided and coordinated by the sales agents and product management, are on hand to offer qualified technical advice, cost estimates and information about products and systems.

Maintenance and support

To ensure optimum reliability and safety, Aermec has a widespread and highly professional technical assistance network.

Keeping the energy efficiency level constant over time, minimising system downtime and preventing any possible problems or faults are what help to maintain the value of the investment made in the air conditioning system. The members of the Technical Assistance Service (SAT) team are carefully selected to ensure the best professionalism, training and satisfaction for our customers.

Reliability, sustainability, efficiency and cost-effectiveness

Skills and innovation in the field of air conditioning and heating

The products

The skills built up with over more than 60 years of experience in this sector are transformed into a range of products and solutions ideal for winter and summer air conditioning, for all energy sources and all applications: residential, commercial and industrial.
Aermec can boast a wide choice of products from 1 kW to 2 MW, including fan coils, chillers and air-cooled or water-cooled heat pumps, air handling units, heat recovery units and high-precision air conditioners.
There is also a comprehensive range of system accessories, and various customer services.

Aermec courses

Conscious of the need to keep its commercial partners always abreast of developments, Aermec has a complete programme of technical seminars aimed above all at designers, architects and installation firms.
These training courses focus on products using renewable energy forms: numerous seminars of a theoretical and practical nature, plus others explaining the latest changes in the regulations.

Refrigerant gas R32

More efficient and eco-compatible

A wonderful little gesture for the future!
Aermec, always ready for change, geared to constant innovation and attentive to environmental issues, has always believed that technological development can help improve people's lives. That's why the new air conditioning lines were created; they use **R32 gas** - a revolutionary refrigerant gas with a low environmental impact that offers enhanced energy efficiency thanks to its excellent thermodynamic characteristics. Compared with the most commonly used refrigerants, R32 gas doesn't harm the ozone layer. It guarantees a 68% reduction in the environmental impact (measured as global warming potential - GWP).
All this is a huge benefit not only for people but, above all for our planet.

Simplicity

Air conditioners that are easy to install, like the models with R410A refrigerant.
R32 refrigerant gas is 100% pure. Re-use and recycling are much more simple.

Respect for the environment

Zero impact on the ozone layer.
68% reduction in the impact on global warming.

Greater efficiency

Reduced costs and greater savings.
30% refrigerant load reduction.
Higher energy efficiency: up to **A+++**.

High energy efficiency

To pursue the aims of 20/20/20 (20% reduction in CO_2 emissions, 20% increase in the production of energy from renewable sources and 20% reduction in primary energy by 2020), the European Union issued the ErP (Energy related Products) Directive that specifies the minimum efficiency requisites of various devices including air conditioners.

For air conditioners with a power level lower than 12 kW, energy efficiency is now assessed (since 1 January 2013) on the basis of the new seasonal efficiency indicators (SEER for cooling mode and SCOP for heating mode).
The new energy labelling system (also in force since 1 January 2013) is bases on these new seasonal efficiency parameters.
The new energy label shows both the Seasonal Efficiency Class of the product (in accordance with EN14825) and the noise values of the indoor and outdoor units.

ENERGY EFFICIENCY CLASS	COOLING
A+++	SEER ≥ 8.50
A++	6.10 ≤ SEER < 8.50
A+	5.60 ≤ SEER < 6.10
A	5.10 ≤ SEER < 5.60
B	4.60 ≤ SEER < 5.10
C	4.10 ≤ SEER < 4.60
D	3.60 ≤ SEER < 4.10
E	3.10 ≤ SEER < 3.60
F	2.60 ≤ SEER < 3.10
G	SEER < 2.60

ENERGY EFFICIENCY CLASS	HEATING
A+++	SCOP ≥ 5.10
A++	4.60 ≤ SCOP < 5.10
A+	4.00 ≤ SCOP < 4.60
A	3.40 ≤ SCOP < 4.00
B	3.10 ≤ SCOP < 3.40
C	2.80 ≤ SCOP < 3.10
D	2.50 ≤ SCOP < 2.80
E	2.20 ≤ SCOP < 2.50
F	1.90 ≤ SCOP < 2.20
G	SCOP < 1.90

Sustainability

Since its conception, Aermec has made a commitment towards sustainability and reduced environmental impact. Today this philosophy is pursued through a constant technological investment, a clear attention to improving personal comfort and an increasingly oriented mental approach towards continuous progress with minimum carbon footprint.

Aermec is ISO 14001 certified and applies the relevant procedures within its offices and plants promoting recycling, energy conservation and waste reduction.

The innovations in heat recovery and the seasonal energy efficiencies, along with the systems designed to minimise the environmental impact of the entire life cycle by customers, have always represented, and will continue to represent, a fundamental business goal.

Inverter technology

Aermec's Full Inverter technology offers a multitude of benefits in terms of more precise and constant temperatures, reduced energy consumption, considerable sound reduction and greater reliability.

It's the most modern offering from today's electronic technology in the field of air conditioning.
It's a system that can maintain ideal comfort conditions in the room, activating the air conditioner at variable speed and power levels without the continual starting and stopping typical of traditional devices. Maximum speed and power and, when necessary, a gradual and automatic slowdown to constantly adapt to the requirements in the room without any major leaps.
This means greater comfort due to the absence of rushes of temperature and a sensible seasonal energy savings - up to 30% less - to increase the efficiency of the refrigeration cycle.
In heat pump operation, besides these benefits, there is an additional recovery of efficiency in the stages of reverse cycle and of defrosting of the exterior exchangers.
The microprocessor system keeps all the device operating parameters under control at all times, intervening on the compressor supply frequency in order to avoid faults or malfunctioning.

Enhanced comfort and notable seasonal energy savings

Rotary DC inverter compressors

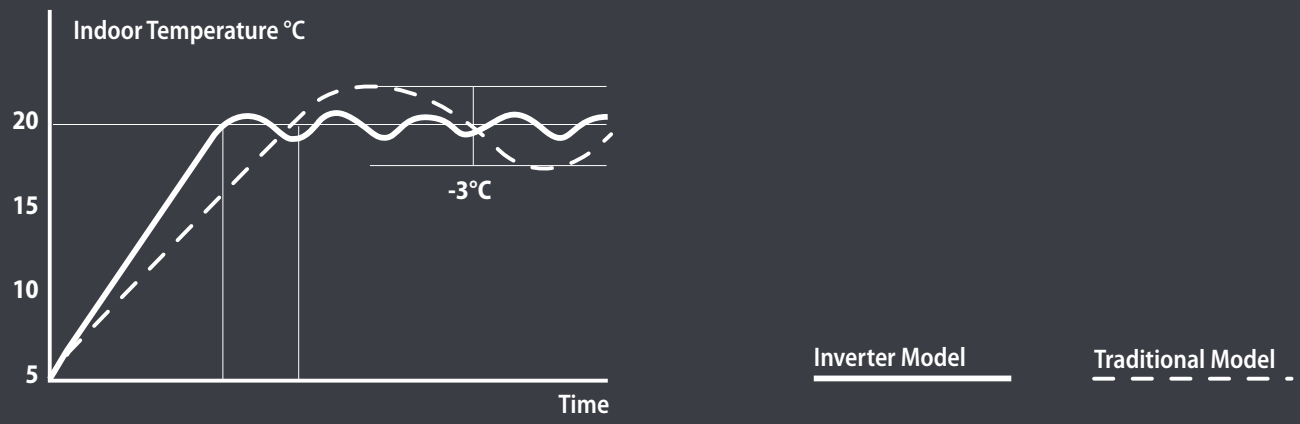
Guarantee greater reliability in terms of energy efficiency and energy savings, along with quiet operation thanks to the reduction in the vibrations generated while the unit is functioning.

Greater reliability and less maintenance

Extremely precise control of the compressor rotation speed, with a saving of 50% compared with traditional air conditioners.

DC inverter fan motor

Inverter technology applied to the fan motor, enabling the required temperature to be reached more effectively with a reduced electric charge loss.



Guaranteed operation

Aermec's split system units guarantee optimum environmental comfort, and can also be used in very cold climates thanks to the **low heating**, **low cooling** and **anti-freeze** functions.

LOW HEATING: heating operation with outdoor temperatures down to **-15 °C**

LOW COOLING: cooling operation with outdoor temperatures down to **-22 °C**

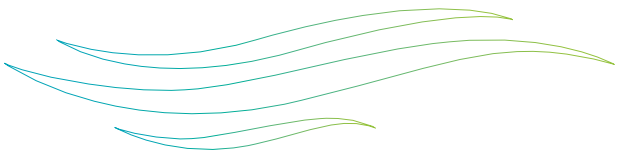
ANTI-FREEZE FUNCTION: this special function automatically starts the unit up in heating mode as soon as a temperature lower than **8 °C** is detected in the room. It's very handy in buildings located in places where the temperature can fall very low.

Wide air flow adjustment range

Optimum comfort in every room

The indoor units have multi-speed fans that allow the set room temperature to be reached with the minimum noise and in the shortest time possible, providing optimum comfort in every room.

QUIET function for extremely quiet operation.
TURBO function to reach the required temperature as quickly as possible.



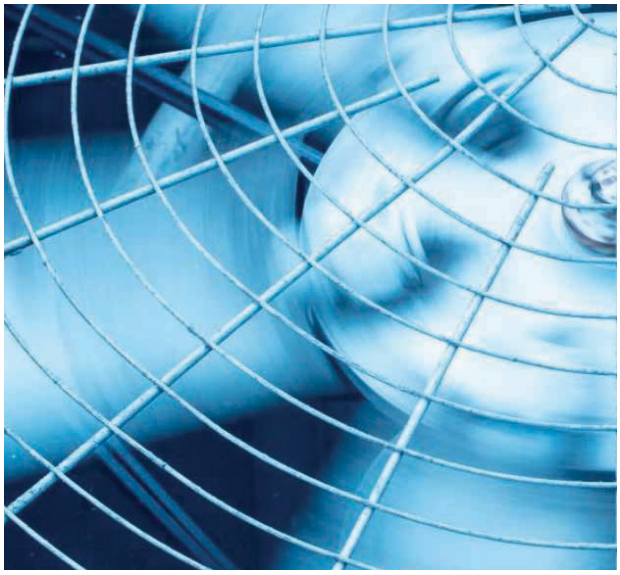
The ideal environment

Correct air diffusion and constantly maintaining the required temperature in the room are fundamental requisites for ensuring the best comfort for the people concerned.

The **IFEEL** function detects the room temperature using the sensor in the remote control, not the average temperature sensor in the indoor unit. This means more accurate temperature control, greater comfort and boosted energy savings.

Air distribution

Our indoor units are fitted with motorised horizontal or vertical deflectors, depending on the model.
The new deflectors are designed to eliminate annoying hot or cold air currents, and can be commanded to direct the air flow towards the ceiling (cooling) or floor (heating) to guarantee an even air distribution in the room and ensure the best possible comfort.



The comfort of silence

A silence never heard before

Another reason why the ranges of Aermec air conditioners are so highly appreciated is their particularly quiet operation.
Night-time operation is even less noticeable thanks to the **SLEEP** function, which means enhanced well-being.
This quiet feature is tested in the modern semi-anechoic chamber in the Aermec laboratory, which is fitted out with all the latest equipment.

We care about your health

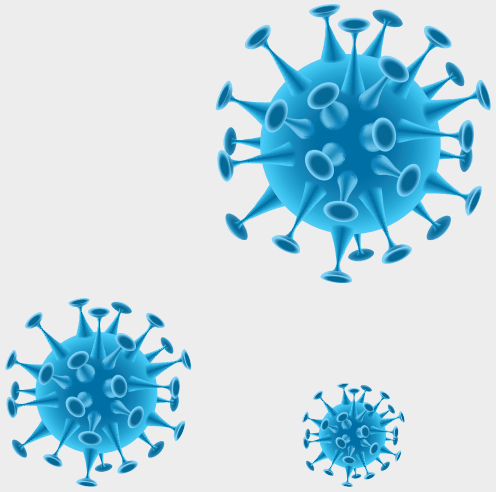
In an increasingly polluted world, guaranteeing a high level of air purity has become vital for our health and well-being. Aermec reaches this goal with sophisticated filtering technologies that ensure healthy, clean air at all times.

Cold Plasma air purifier

Capable of reducing pollutants by means of electric discharges, causing the splitting of the water molecules in the air into positive and negative ions. These ions neutralize the molecules of gaseous pollutants, transforming them into products normally present in clean air. The device is capable of eliminating 90% of bacteria. The result is clean, ionized air, free of foul odours.

Electrostatic anti-dust filter

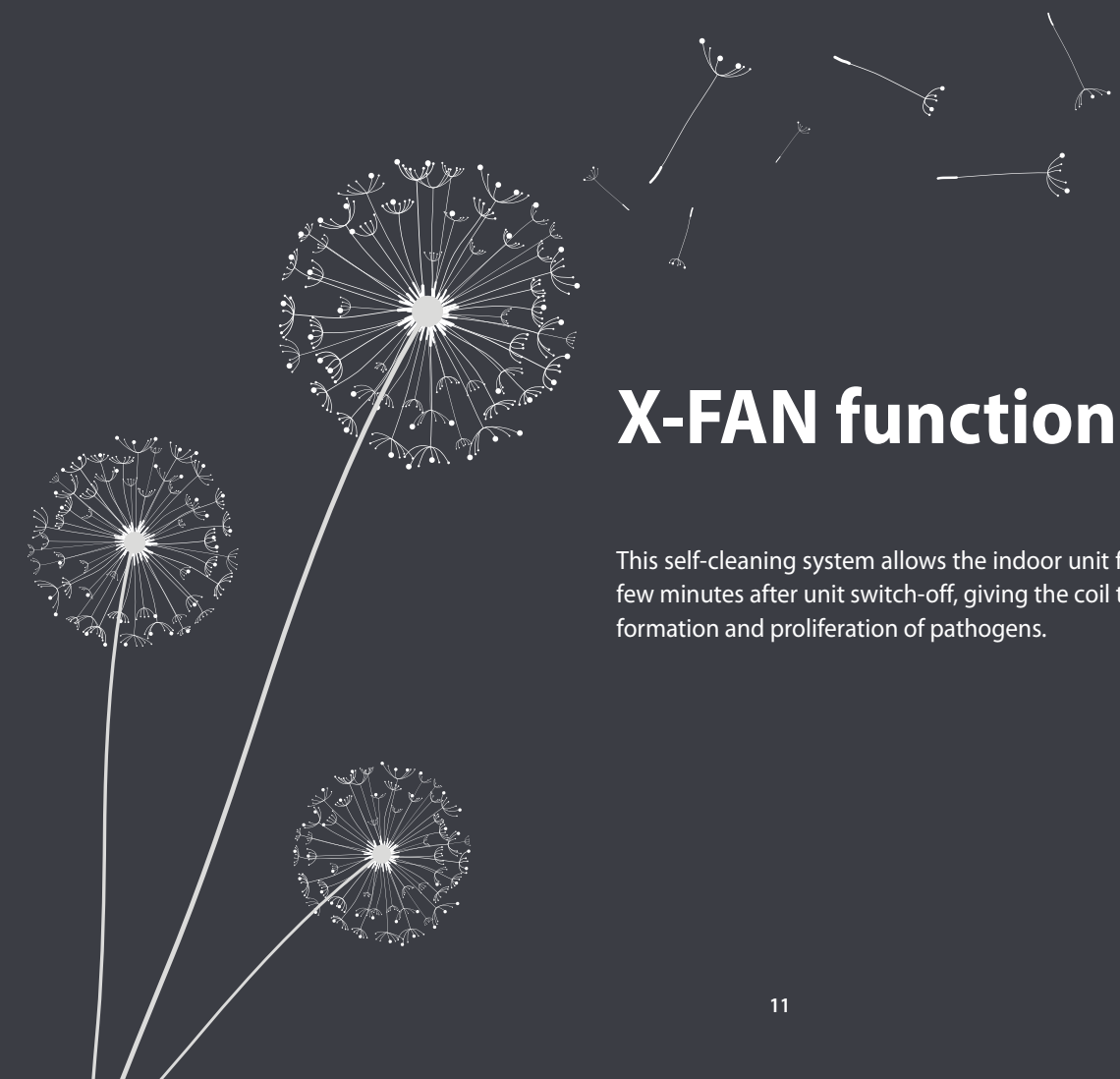
Thanks to the electrostatic charge, the filter holds back dust and other impurities and thereby cleans the air.
It can be easily removed for normal maintenance work.



Cold Plasma
is active against

- **Viruses (flu)**
- **Certain cigarette smoke compounds**
- **Spores and mould germs**
- **Pollen**
- **Dust**
- **Pet odours**
- **Exhaust gas**
- **Escherichia Coli**
- **Cladosporium**
- **Aspergillus**

Many of these elements can trigger dangerous breathing fits in people who suffer from asthma and other illnesses.
Cold Plasma is an ion generator system ideal for purifying indoor contexts. It deactivates the viruses and bacteria in the air. Unlike electrostatic filters, it has an air purification mechanism that uses a generator to break down some of the water molecules in the air (humidity) by means of an electrical discharge.



X-FAN function

This self-cleaning system allows the indoor unit fan to carry on working for a few minutes after unit switch-off, giving the coil time to dry and avoiding the formation and proliferation of pathogens.

Wi-Fi control

Aermec, a leading manufacturer of air conditioning systems, boasts a wide range of products and offers Wi-Fi control for several types of unit including monosplit, multi-split and heat pump systems.

Plug & Play module to be installed in the indoor unit for Wi-Fi control. With this accessory and the specific EWPE SMART app or NETHOME PLUS app, the system can be controlled directly from your smartphone or tablet, wherever you are. Remote control is possible via Cloud, using a wireless router connected to the Internet.

EWPE Smart app

EWPE Smart is an app that lets you control and manage your AC system from your smartphone or tablet, even when you're away from home or out of the office.

It was purposely developed for smartphones and tablets, is compatible with iOS and Android systems, and can be downloaded free of charge from App Store or Google Play.

Download the EWPE Smart app

Download on the App Store

GET IT ON Google Play

NETHOME PLUS app

NETHOME PLUS is a modern, dynamic app that allows you to easily control and manage your AC system from your smartphone or tablet, even when you're away from home or out of the office, so you never have to forgo optimum comfort.

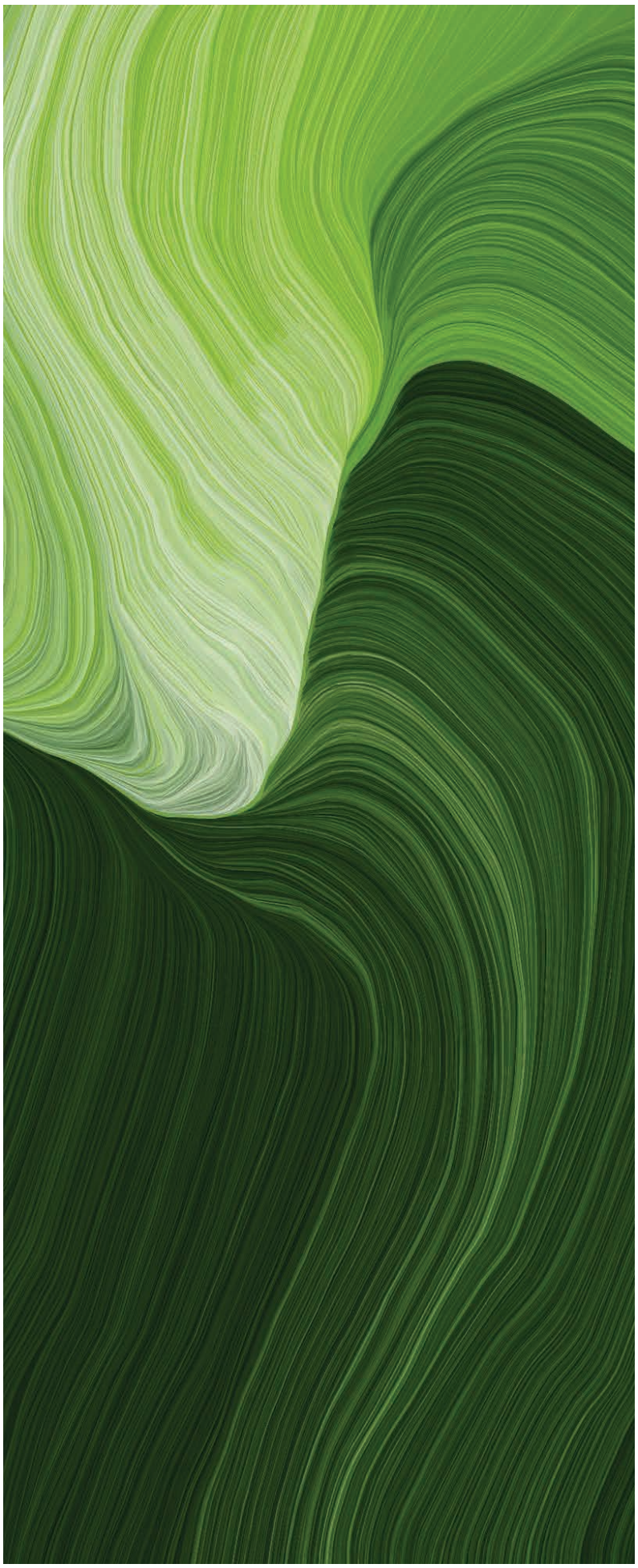
This app, purposely developed for smartphones and tablets, is compatible with iOS and Android systems and can be downloaded free of charge from App Store or Google Play.

The NETHOME PLUS app is available for the SGE air conditioning system only.
For more information about the operation or compatibility of the accessory, refer to the documentation available at www.aermec.it

Download the NETHOME PLUS app

Download on the App Store

GET IT ON Google Play



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Monosplit

The **monosplit** air conditioner, consisting of an indoor unit connected to an outdoor unit, heats or cools a single room.

A vast choice not only in terms of models but also alternatives and possibilities, Aermec's monosplit air conditioners cover a wide range of cooling capacity levels from **2.4 kW** to **28.0 kW**, and heating capacity levels from **2.3 kW** to **30.0 kW** and come in cooling-only and heat pump versions.
Equipped with inverter technology, they only use the energy they need, maximising energy savings and ensuring minimal noise levels and increased temperature stability. Quality design and materials and exclusive elegant design complete the range features, ranking Aermec among the leaders on the market.

PSL

portable packed air conditioner

- **New R290 natural refrigerant gas**
- **Reversible heat pump**
- **Compact, manoeuvrable and quiet**

With their compact, elegant design, **PSL** portable air conditioners are ideal for any type of context. Fitted with wheels so they can be easily moved to wherever they're needed.

Operating mode: cooling, heating, dehumidification, ventilation only.

Equipped with a specific tank for collecting the moisture removed from the air.
The cooled, heated or dehumidified air comes out of the front grille and is directed vertically by mobile fins.
The on-board control panel with display allows to easily and precisely set the desired temperature set-points.

Unit			PSL250	PSL350
Nominal performance in cooling mode				
Cooling Capacity (1)		kW	2,60	3,40
EER (2)		W/W	3,10	2,60
Seasonal efficiency				
Energy efficiency class (3)			A	A
Nominal performance in heating mode				
Heating capacity (4)		kW	2,30	2,70
COP (2)		W/W	3,10	2,80
Seasonal efficiency (temperate climate)				
Energy efficiency class (3)			A+	A+
Electrical data				
Nominal input power (5)		kW	1,0	1.5
Nominal input power (5)		A	4,6	8,0
General data				
Fan				
Type of fan		Type	Centrifugal on/off	
Air flow rate	max/med/min	m^3/h	390/360/330	390/360/330
Sound power	max/med/min	dB(A)	64,0/63,5/63,0	64,0/63,5/63,0
Sound pressure (6)	max/med/min	dB(A)	35,0/33,0/31,0	35,0/33,0/31,0
Compressor				
Type of compressor		Type	Rotary on/off	
Refrigerant:		Type	R290	R290
Refrigerant load		kg	0,2	0,2
Power supply				
Type of power cable		Type	3G1.0 mm^2/L= 2.85 m/Schuko plug	3G1.0 mm2/L= 2.85 m/Schuko plug
Power supply			220-240V ~ 50Hz	
Hose				
Minimum length		mm	270	270
Maximum length		mm	1500	1500
Diameter (out)		mm	145	145
Condensate Discharge Diameter		mm	13,5	13,5
Dimensions		mm	476×385×710	476×385×710

(1) Cooling (EN 14511 and EN 14825) room air temperature 27 °C d.b. / 19 °C w.b.; Outside air temperature 35 °C; turbo speed; cooling line length 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) Room air temperature 20°C d.b.; Outside air temperature 7 °C d.b.; / 6 °C w.b.; turbo speed; cooling line length 5 m.
(5) The nominal input power (nominal input current) is the maximum electrical input power (maximum input current) to the system, in accordance with standards EN 60335-1 and EN 60335-2-40.
(6) Sound pressure measured in an anechoic chamber at a distance of 1.5m from the front of the unit.

CMP

packed air conditioner with no outdoor unit

- **Two holes, no outdoor units**
- **Modern design to blend with all furnishing styles**
- **Extremely thin (165 mm deep)**

CMP air conditioners are packed units designed to be installed on indoor walls. They blend perfectly with any kind of décor, thanks to their compact and elegant design. The fact that there is no outdoor unit means they can be used in all those cases where architectural restraints prevent the installation of a split air conditioner.

Operating mode: cooling, heating, dehumidification, ventilation only.

It needs no outdoor unit. With just two holes of 162 mm in the outer wall, it can exchange heat with the outside.

The foldable grilles are activated by the inlet and outlet air, opening when the machine is working and closing when it's switched off to guarantee optimum indoor comfort.
The air delivery fin can easily be orientated using the specific button.

Unit			CMP231
Nominal performance in cooling mode			
Cooling Capacity (1)		kW	2,35
Total input power (cooling) (1)		kW	0,73
EER (2)		W/W	3,22
Moisture removed		l/h	1,1
In cooling mode			
Cooling capacity:	value	kW	3,10
Seasonal efficiency			
Energy efficiency class (3)			A+
Annual Power Consumption		kWh/annum	425
Nominal performance in heating mode			
Heating capacity (4)		kW	2,36
Total input power (heating) (4)		kW	0,72
COP (2)		W/W	3,28
Maximum heating performance			
Heating capacity		kW	3,05
Seasonal efficiency (temperate climate)			
Energy efficiency class (3)			A

General data			
Fan			
Type of fan		Type	Inverter centrifugal
Air flow rate (inner side)	max./med./min.	m^3/h	400/320/270
Air flow rate (outer side)	max./med./min.	m^3/h	480/390/340
Refrigerant:		Type	R410A
Refrigerant load		kg	0,6
Global heating potential		GWP	2088 $kgCO_2eq$
Sound data calculated in cooling mode (5)			
Sound power level		dB(A)	58,0
Sound pressure level (1.5 m)		dB(A)	46,0
Condensate Discharge Diameter		mm	13,5
Dimensions		mm	1030×170×555

(1) Cooling (EN 14511 and EN 14825) room air temperature 27 °C d.b. / 19 °C w.b.; Outside air temperature 35 °C; turbo speed; cooling line length 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) Room air temperature 20°C d.b.; Outside air temperature 7 °C d.b.; / 6 °C w.b.; turbo speed; cooling line length 5 m.
(5) Sound power: calculated on the basis of the measurements taken in accordance with Standard UNI EN ISO 9614-2, as required by Eurovent certification. Sound pressure measured in a free field, 10 m from the external surface of the unit (according to the UNI EN ISO 3744).

FK

window packed air conditioner

- **New environmentally friendly refrigerant gas R32**
- **Flush-mounting installation on the window**
- **Plug & Play**

The flush-mounting packed air conditioners of the **FK** range for window installation are ideal for commercial contexts such as shops, hotels, offices, laboratories and prefabricated garages.
The air filter is easily accessible to enable regular cleaning.

Operating mode: cooling, dehumidification and ventilation only.

Packed Plug & Play unit fitted with a power supply cable with Schuko plug.

Extremely quiet operation.

Unit			FK260	FK360
Nominal performance in cooling mode				
Cooling Capacity (1)		kW	2,70	3,65
Total input power (cooling) (1)		kW	0,78	1,03
EER (2)		W/W	3,45	3,54
Moisture removed		l/h	1,0	1,6
In cooling mode				
Input current (cooling)	value	A	3,5	4,6
Seasonal efficiency				
SEER		W/W	5,20	5,40
Energy efficiency class (3)			A	A
Pdesignc		kW	2,7	3,7
Annual Power Consumption		kWh/annum	182	240

Electrical data				
Nominal input power (4)		kW	1,1	1,3
Nominal input power (4)		A	5,5	6,5
Power supply			220-240V ~ 50Hz	

Inner side				
Fan				
Type of fan		Type	Inverter centrifugal	
Air flow rate (inner side)	max./med./min.	m^3/h	400/360/320	480/430/380
Sound power (inner side)	max./med./min.	dB(A)	59,0/57,0/55,0	59,0/57,0/55,0
Sound power (outer side)	max./med./min.	dB(A)	50,0/48,0/46,0	50,0/48,0/46,0

Outer side				
Fan				
Type of fan		Type	Axial inverter	
Air flow rate (outer side)	value	m^3/h	800	1200
Sound power (outer side)	max./med./min.	dB(A)	65,0/63,0/61,0	65,0/63,0/61,0
Sound power (outer side)	max./med./min.	dB(A)	56,0/54,0/52,0	56,0/54,0/52,0
Compressor				
Type of compressor		Type	Rotary Inverter	
Refrigerant:		Type	R32	R32
Refrigerant load		kg	0,5	0,6
Global heating potential		GWP	675kgCO_2eq	
CO_2 equivalent		t	0,34	0,43
Protection rating			IPX4	IPX4

Dimensions		mm	560×710×375	660×700×428

(1) Cooling (EN 14511 and EN 14825) room air temperature 27 °C d.b. / 19 °C w.b.; Outside air temperature 35 °C; turbo speed; cooling line length 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) The nominal input power (nominal input current) is the maximum electrical input power (maximum input current) to the system, in accordance with standards EN 60335-1 and EN 60335-2-40.

SPG

monosplit / universal
wall-mounted installation

- **X-FAN function**
- **Special coil with Blue Fin coating**
- **Possibility of Wi-Fi control, using the accessory**

The units of the **SPG_W** range are designed for indoor wall installation. SPG has a modern, streamlined design that's ideal with any style of furnishings.
Some indoor units can be combined with both outdoor multisplit units of the MPG range and outdoor monosplit units of the SPG range.

Operating mode: cooling, heating, dehumidification, automatic and ventilation only.

The outdoor unit boasts a compressor with inverter technology.

ACCESSORIES*

DCK: remote contact kit.
WRCA: wired panel with liquid crystal display and soft-touch buttons.
CC2: centralised control (7" touchscreen display).
WIFIKIT01: Plug & Play module to be installed in the indoor unit for Wi-Fi control, equipped with Bluetooth® connection to ensure a better connection with smart devices. (Cable length 250 mm).
IC-2P*

* For more information about the accessories and their compatibility, refer to the product data sheet and the specific documentation of the accessory itself.

Indoor Unit			SPG250W	SPG350W	SPG500W	SPG700W
Outdoor unit			**SPG250**	**SPG350**	**SPG500**	**SPG700**
Nominal performance in cooling mode						
Cooling Capacity (1)		kW	2,50	3,20	4,60	6,20
Total input power (cooling) (1)		kW	0,72	0,99	1,36	1,77
EER (2)		W/W	3,47	3,23	3,39	3,50
Moisture removed		l/h	0,6	1,4	1,8	1,8
Minimum and maximum cooling performance						
Cooling capacity:	min / max	kW	0,50 / 3,25	0,90 / 3,60	1,00 / 5,30	1,60 / 6,90
Input power (cooling)	min / max	kW	0,15 / 1,30	0,22 / 1,30	0,42 / 1,80	0,45 / 2,20
Input current (cooling)	max	A	3,2	4,4	5,9	7,9
Seasonal efficiency						
SEER		W/W	6,50	6,10	6,40	6,80
Energy efficiency class (3)			A++	A++	A++	A++
Annual Power Consumption		kWh/annum	135	184	251	319
Nominal performance in heating mode						
Heating capacity (4)		kW	2,80	3,40	5,20	6,50
Total input power (heating) (4)		kW	0,75	0,91	1,34	1,65
COP (2)		W/W	3,73	3,71	3,88	3,95
Minimum and maximum heating performance						
Heating capacity	min / max	kW	0,50 / 3,50	0,90 / 4,00	1,00 / 5,65	1,30 / 7,91
Input power (heating mode)	min / max	kW	0,14 / 1,50	0,22 / 1,50	0,42 / 1,90	0,45 / 2,20
Input current (heating mode)	max	A	3,2	4,0	5,8	7,3
Efficienza stagionale (clima temperato)						
SCOP			4,00	4,00	4,00	4,00
Energy efficiency class (3)			A+	A+	A+	A+
Annual Power Consumption		kWh/annum	875	945	1295	1645

Indoor Unit			SPG250W	SPG350W	SPG500W	SPG700W
Type of fan		Type	Inverter centrifugal			
Air flow rate	turbo/max/med/min	m^3/h	500/470/390/270	590/520/400/320	850/800/700/600	1100/950/750/650
Sound power	turbo/max/med/min	dB(A)	55,0/48,0/44,0/34,0	56,0/49,0/45,0/38,0	54,0/52,0/48,0/44,0	61,0/58,0/52,0/49,0
Sound pressure (5)	turbo/max/med/min	dB(A)	38,0/36,0/32,0/22,0	41,0/37,0/33,0/26,0	44,0/42,0/38,0/34,0	47,0/44,0/38,0/35,0
Condensate Discharge Diameter		mm	16,0	16,0	16,0	16,0
Dimensions		mm	696x251x190	770x251x190	972x300x225	1081x325x248

Outdoor unit			SPG250	SPG350	SPG500	SPG700
Type of fan		Type	Axial inverter			
Air flow rate	max	m^3/h	1950	1950	1950	2800
Sound power	max	dB(A)	62,0	64,0	63,0	67,0
Sound pressure (5)	max	dB(A)	51,0	51,0	55,0	58,0
Type of compressor		Type	Rotary Inverter			
Refrigerant:		Type	R32	R32	R32	R32
Refrigerant load		kg	0,50	0,55	0,75	1,30
Global heating potential		GWP	675kgCO_2eq	675kgCO_2eq	675kgCO_2eq	675kgCO_2eq
CO_2 equivalent		t	0,34	0,37	0,51	0,88
Condensate Discharge Diameter		mm	16,0	16,0	16,0	16,0
Dimensions		mm	732x330x550	732x330x550	732x330x555	873x376x555

Electrical data						
Nominal input power (6)		kW	1,5	1,5	1,9	2,2
Nominal input power (6)		A	7,5	7,5	9,0	10,0
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 conn		mm (inch)	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	12,7 (1/2")
Maximum refrigerant tube length		m	15	15	25	25
Maximum refrigerant line level difference		m	10,0	10,0	10,0	10,0
Refrigerant to be added		g/m	16	16	16	16
Power supply			220-240V ~ 50Hz			

(1) Cooling (EN 14511 and EN 14825) room air temperature 27 °C d.b. / 19 °C w.b.; Outside air temperature 35 °C; turbo speed; cooling line length 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) Room air temperature 20°C d.b.; Outside air temperature 7 °C d.b.; / 6 °C w.b.; turbo speed; cooling line length 5 m.
(5) Sound pressure measured in an anechoic chamber at a distance of 1.5m from the front of the unit.
(6) The nominal input power (nominal input current) is the maximum electrical input power (maximum input current) to the system, in accordance with standards EN 60335-1 and EN 60335-2-40.

SGE

monosplit
wall-mounted installation

- **Air purifier (Cold Plasma)**
- **Possibility of Wi-Fi control, using the accessory**
- **X-FAN function**

The units of the **SGE_W** range are designed for indoor wall installation. 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.

Operating mode: cooling, heating, dehumidification, automatic and ventilation only.

The outdoor unit boasts a compressor with inverter technology.

ACCESSORIES*

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

* For more information about the accessories and their compatibility, refer to the product data sheet and the specific documentation of the accessory itself.

Indoor Unit			SGE250W	SGE350W	SGE500W	SGE700W
Outdoor unit			**SGE250**	**SGE350**	**SGE500**	**SGE700**
Nominal performance in cooling mode						
Cooling Capacity (1)		kW	2,77	3,46	5,27	5,86
Total input power (cooling) (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	1,0	1,2	1,8	2,7
Minimum and maximum cooling performance						
Cooling capacity:	min / max	kW	0,91 / 3,39	1,11 / 4,16	3,39 / 5,83	2,08 / 7,91
Input power (cooling)	min / max	kW	0,10 / 1,24	0,13 / 1,58	0,56 / 2,05	0,42 / 3,15
Input current (cooling)	max	A	3,3	4,6	6,7	7,9
Seasonal efficiency						
SEER		W/W	6,30	6,40	7,40	6,80
Energy efficiency class (3)			A++	A++	A++	A++
Annual Power Consumption		kWh/annum	156	190	247	300
Nominal performance in heating mode						
Heating capacity (4)		kW	2,93	3,57	4,97	6,00
Total input power (heating) (4)		kW	0,73	0,96	1,29	1,61
COP (2)		W/W	4,00	3,71	3,83	3,73
Minimum and maximum heating performance						
Heating capacity	min / max	kW	0,82 / 3,37	1,08 / 4,22	3,10 / 5,85	1,61 / 7,91
Input power (heating mode)	min / max	kW	0,12 / 1,20	0,10 / 1,68	0,78 / 2,00	0,30 / 2,75
Input current (heating mode)	max	A	3,2	4,2	5,6	7,0
Efficienza stagionale (clima temperato)						
SCOP			4,00	4,00	4,00	4,00
Energy efficiency class (3)			A+	A+	A+	A+
Annual Power Consumption		kWh/annum	910	945	1435	1818
Seasonal efficiency (hot climate)						
SCOP			5,10	5,10	5,10	5,00
Energy efficiency class (3)			A+++	A+++	A+++	A++
Annual Power Consumption		kWh/annum	714	686	1260	1705

Indoor Unit			SGE250W	SGE350W	SGE500W	SGE700W
Type of fan		Type		Tangential		
Air flow rate	max/med/min	m^3/h	466/360/325	540/430/314	840/680/540	980/817/662
Sound power	max	dB(A)	54,0	55,0	56,0	59,0
Sound pressure (5)	max/med/min	dB(A)	38,5/32,0/25,0	40,5/34,5/25,0	42,5/36,0/26,0	45,0/40,5/36,0
Dimensions		mm	805x194x285	805x194x285	957x213x302	1040x220x327

Unità esterna			SGE250	SGE350	SGE500	SGE700
Type of fan		Type		Axial inverter		
Air flow rate	max	m^3/h	1750	1800	2100	3500
Sound power	max	dB(A)	62,0	63,0	63,0	67,0
Sound pressure (5)	max	dB(A)	55,5	56,0	56,0	59,0
Type of compressor		Type		Rotary Inverter		
Refrigerant:		Type	R32	R32	R32	R32
Refrigerant load		kg	0,55	0,55	1,08	1,42
Global heating potential		GWP	675kgCO_2eq	675kgCO_2eq	675kgCO_2eq	675kgCO_2eq
CO_2 equivalent		t	0,37	0,37	0,73	0,96
Dimensions		mm	720x270x495	720x270x495	805x330x554	890x342x673

Electrical data						
Nominal input power (6)		kW	2,2	2,2	2,5	3,5
Nominal input power (6)		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 conn		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				220-240V ~ 50Hz		

(1) Cooling (EN 14511 and EN 14825) room air temperature 27 °C d.b. / 19 °C w.b.; Outside air temperature 35 °C; turbo speed; cooling line length 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) Room air temperature 20°C d.b.; Outside air temperature 7 °C d.b.; / 6 °C w.b.; turbo speed; cooling line length 5 m.
(5) Sound pressure measured in an anechoic chamber at a distance of 1 m from the front of the unit.
(6) The nominal input power (nominal input current) is the maximum electrical input power (maximum input current) to the system, in accordance with standards EN 60335-1 and EN 60335-2-40.

CKG

monosplit
wall-mounted installation

- **X-FAN function**
- **Air purifier (Cold Plasma)**
- **Wi-Fi module as standard**

The units of the **CKG_FS** range are designed for indoor wall installation. They have a twin-delivery inverter fan unit for optimum air flow control. Some indoor units can be combined with both multisplit outdoor units of the series MPG and MLG and monosplit outdoor units of the series CKG.

Operating mode: cooling, heating, dehumidification, automatic and ventilation only.
Low cooling function:
cooling with outside temperatures down to -15 °C.
Low heating function:
heating with outside temperatures down to -22 °C.

ACCESSORIES*

WRCA: wired panel with liquid crystal display and soft-touch buttons.
CC2: centralised control (7" touchscreen display).
IC-2P*

* For more information about the accessories and their compatibility, refer to the product data sheet and the specific documentation of the accessory itself.

Indoor Unit			CKG260FS	CKG360FS	CKG500FS
Outdoor unit			**CKG260**	**CKG360**	**CKG500**
Nominal performance in cooling mode					
Cooling Capacity (1)		kW	2,70	3,52	5,20
Total input power (cooling) (1)		kW	0,72	1,00	1,55
EER (2)		W/W	3,75	3,52	3,35
Moisture removed		l/h	0,80	1,20	1,80
Minimum and maximum cooling performance					
Cooling capacity:	min / max	kW	0,70 / 3,40	0,80 / 4,40	1,26 / 6,60
Input power (cooling)	min / max	kW	0,17 / 1,30	0,16 / 1,50	0,38 / 2,45
Input current (cooling)	value	A	3,5	4,5	7,1
Seasonal efficiency					
SEER		W/W	7,20	7,00	6,60
Energy efficiency class (3)			A++	A++	A++
Pdesignc		kW	2,7	3,5	5,2
Annual Power Consumption		kWh/annum	131	175	276
Nominal performance in heating mode					
Heating capacity (4)		kW	2,90	3,80	5,33
Total input power (heating) (4)		kW	0,73	0,96	1,50
COP (2)		W/W	3,97	3,96	3,55
Minimum and maximum heating performance					
Heating capacity	min / max	kW	0,60 / 3,50	1,10 / 4,40	1,12 / 6,80
Input power (heating mode)	min / max	kW	0,13 / 1,35	0,17 / 1,50	0,35 / 2,50
Input current (heating)	value	A	3,6	4,3	6,7
Seasonal efficiency (temperate climate)					
SCOP			4,00	4,10	4,10
Energy efficiency class (3)			A+	A+	A+
Pdesignh		kW	2,6	3,2	5,0
Annual Power Consumption		kWh/annum	910	1093	1750

Indoor Unit			CKG260FS	CKG360FS	CKG500FS
Type of fan		Type		Inverter centrifugal	
Air flow rate	turbo/max/med/min	m^3/h	500 / 430 / 370 / 280	600 / 520 / 440 / 360	700 / 650 / 520 / 410
Sound power	turbo/max/med/min	dB(A)	50,0/48,0/44,0/38,0	54,0/50,0/46,0/39,0	57,0/55,0/51,0/47,0
Sound pressure (5)	turbo/max/med/min	dB(A)	39,0/36,0/31,0/26,0	44,0/40,0/36,0/29,0	47,0/45,0/41,0/37,0
Condensate Discharge Diameter		mm	17,0	17,0	17,0
Dimensions		mm	700×215×600	700×215×600	700×215×600

Outdoor unit			CKG260	CKG360	CKG500
Type of fan		Type		Axial inverter	
Air flow rate	value	m^3/h	1600	2200	3200
Sound power	value	dB(A)	60,0	62,0	65,0
Sound pressure (5)	value	dB(A)	49,0	52,0	57,0
Type of compressor		Type		Rotary Inverter	
Refrigerant:		Type	R32	R32	R32
Refrigerant load		kg	0,55	0,75	0,95
Global heating potential		GWP	675kgCO_2eq	675kgCO_2eq	675kgCO_2eq
CO_2 equivalent		t	0,37	0,51	0,64
Condensate Discharge Diameter		mm	15,8	15,8	15,8
Dimensions		mm	782×320×540	848×320×596	965×396×700

Electrical data					
Nominal input power (6)		kW	1,4	1,5	2,5
Nominal input power (6)		A	6,0	6,7	11,1
Refrigeration Pipework					
Diameter of liquid refrigerant connections		mm (inch)	6,35 (1/4")	6,35 (1/4")	6,35 (1/4")
Diameter of refrigerant gas conn		mm (inch)	9,52 (3/8")	9,52 (3/8")	12,7 (1/2")
Maximum refrigerant tube length		m	15	20	25
Maximum refrigerant line level difference		m	10,0	10,0	10,0
Refrigerant to be added		g/m	16	16	16
Power supply				220-240V ~ 50Hz	

(1) Cooling (EN 14511 and EN 14825) room air temperature 27 °C d.b. / 19 °C w.b.; Outside air temperature 35 °C; turbo speed; cooling line length 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) Room air temperature 20°C d.b.; Outside air temperature 7 °C d.b.; / 6 °C w.b.; turbo speed; cooling line length 5 m.
(5) Sound pressure measured in an anechoic chamber at a distance of 1.5m from the front of the unit.
(6) The nominal input power (nominal input current) is the maximum electrical input power (maximum input current) to the system, in accordance with standards EN 60335-1 and EN 60335-2-40.

SCG

monosplit
free-standing installation

- **Standard Wi-Fi module**
- **Easy installation and maintenance**
- **X-FAN function**

The monosplit air conditioners of the **SCG** range are combined with **SCG_V** (column) indoor units designed for indoor free-standing installation.
SCG_V has a modern, elegant design that makes it ideal for any context.

Operating mode: cooling, heating, dehumidification, automatic and ventilation only.

The outdoor unit features a compressor with inverter technology, an electronic valve and an electric heater to ensure correct winter operation and prevent ice formation on the coil.

Indoor Unit			SCG701V	SCG1201V	SCG1201VT
Outdoor unit			**SC701**	**SC1201**	**SCG1201T**
Nominal performance in cooling mode					
Cooling Capacity (1)		kW	7,20	1230	12,50
Total input power (cooling) (1)		kW	2,05	4,17	3,79
EER (2)		W/W	3,51	2,95	3,30
Moisture removed		l/h	2,5	5,0	5,0
Minimum and maximum cooling performance					
Cooling capacity:	min / max	kW	0,97 / 8,40	1,50 / 13,50	3,10 / 14,50
Input power (cooling)	min / max	kW	0,35 / 2,95	0,55 / 5,60	0,30 / 5,70
Input current (cooling)	max	A	9,0	18,0	5,6
Seasonal efficiency					
SEER		W/W	6,10	5,70	6,10
Energy efficiency class (3)			A++	-	-
Annual Power Consumption		kWh/annum	413	-	-
ηsc		%	-	227,0	241,0
Nominal performance in heating mode					
Heating capacity (4)		kW	7,90	12,60	14,50
Total input power (heating) (4)		kW	2,33	3,82	3,86
COP (2)		W/W	3,39	3,30	3,79
Minimum and maximum heating performance					
Heating capacity	min / max	kW	0,64 / 8,80	2,50 / 14,00	2,80 / 14,00
Input power (heating mode)	min / max	kW	0,39 / 3,03	3,30 / 5,60	0,50 / 6,60
Input current (heating)	max	A	10,50	16,00	5,2
Seasonal efficiency (temperate climate)					
SCOP			3,80	3,70	4,00
Energy efficiency class (3)			A	-	-
Annual Power Consumption		kWh/annum	2063	-	-
ηsh		%	-	146,00	159,00

Indoor Unit			SCG701V	SCG1201V	SCG1201VT
Input power		W	-	-	-
Type of fan		Type		Inverter centrifugal	
Air flow rate	turbo/max/med/min	m^3/h	1250/950/850/750	2000/1850/1700/1580	2400/2200/2000/1800
Sound power	turbo/max/med/min	dB(A)	56,0/52,0/50,0/46,0	64/61/60/58	66/64/63/61
Sound pressure (5)	turbo/max/med/min	dB(A)	45,0/41,0/39,0/35,0	53/51/50/48	56/54/53/51
Dimensions		mm	507x320x1770	587x394x1882	587x394x1882

Outdoor unit			SCG701	SCG1200	SCG1200T
Type of fan		Type		Axial inverter	
Air flow rate	max	m^3/h	3600	4000	5200
Sound power	max	dB(A)	70,0	73,0	74,0
Sound pressure (5)	max	dB(A)	61,0	63,0	63,0
Type of compressor		Type		Rotary Inverter	
Refrigerant:		Type	R32	R32	R32
Refrigerant load		kg	1,50	2,00	2,80
Global heating potential		GWP	675kgCO_2eq	675kgCO_2eq	675kgCO_2eq
CO_2 equivalent		t	1,01	1,35	1,89
Dimensions		mm	958x402x660	1000x427x746	1020x427x820
Electrical data					
Nominal input power (6)		kW	3,0	5,0	5,7
Nominal input power (6)		A	14,5	20,0	9,8
Refrigeration Pipework					
Diameter of liquid refrigerant connections		mm (inch)	6,35 (1/4")	6,35 (1/4")	9,52 (3/8")
Diameter of refrigerant gas conn		mm (inch)	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")
Maximum refrigerant tube length		m	25	30	30
Maximum refrigerant line level difference		m	10,0	20,0	20,0
Refrigerant to be added		g/m	40	50	40
Indoor Unit Supply			220-240V ~ 50Hz	220-240V ~ 50Hz	380-415V ~ 3N 50Hz
Outdoor Unit Supply			220-240V ~ 50Hz	220-240V ~ 50Hz	380-415V ~ 3N 50Hz

(1) Cooling (EN 14511 and EN 14825) room air temperature 27 °C d.b. / 19 °C w.b.; Outside air temperature 35 °C; turbo speed; cooling line length 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) Room air temperature 20°C d.b.; Outside air temperature 7 °C d.b.; / 6 °C w.b.; turbo speed; cooling line length 5 m.
(5) Sound pressure measured in an anechoic chamber at a distance of 1.5m from the front of the unit.
(6) The nominal input power (nominal input current) is the maximum electrical input power (maximum input current) to the system, in accordance with standards EN 60335-1 and EN 60335-2-40.
Nota: la quantità di gas refrigerante da aggiungere, si riferisce ad una lunghezza delle linee superiore a 5 m.

MVAS

high-head duct monosplit
duct type installation

- **Suitable for long-distance channels**
- **High static pressure that can reach 150 Pa**
- **Special coil with Golden Fin coating**

The monosplit air conditioners of the **MVAS** range are combined with **MVA_DH** (high-head duct) indoor units designed for horizontal duct-type installation.

Operating mode: cooling, heating, dehumidification, automatic and ventilation only.

The outdoor unit features a compressor with inverter technology, an electronic valve and an electric heater to ensure correct winter operation and prevent ice formation on the coil.

ACCESSORIES*

MVAGW: This accessory allows you to manage up to 16 MV systems (with a maximum of 255 total indoor units), making available a serial in ModBus RTU protocol on RS485, ModBus TCP or BACnet / IP for supervision with an external BMS.
USBDC: the kit includes a CanBus to ModBus converter and the VRF debugger software.
WRC: wired panel with liquid crystal display and soft-touch buttons.
WRC1: wired panel with liquid crystal display and soft-touch buttons.

* For more information about the accessories and their compatibility, refer to the product data sheet and the specific documentation of the accessory itself.

Indoor Unit			**MVA2240DH**	**MVA2800DH**
Outdoor unit			**MVAS2242T**	**MVAS2803T**
Nominal performance in cooling mode				
Cooling Capacity (1)		kW	22,40	28,00
Total input power (cooling) (1)		kW	6,12	13,02
Input current (cooling)		A	10,9	-
EER (2)		W/W	3,66	2,15
Nominal performance in heating mode				
Heating capacity (3)		kW	24,00	28,00
Total input power (heating) (3)		kW	4,90	8,00
Input current (heating)		A	8,8	-
COP (2)		W/W	4,90	3,50

Indoor Unit			**MVAS2240DH**	**MVAS2800DH**
Type of fan		Type	Inverter centrifugal	
Air flow rate	value	m^3/h	4000	4400
Useful static pressure	rated	Pa	150	150
Sound power (4)	max/med/min	dB(A)	64,0/62,0/59,0	65,0/62,0/60,0
Sound pressure (5)	max/med/min	dB(A)	54,0/52,0/49,0	55,0/52,0/50,0
Condensate Discharge Diameter		mm	30,0	30,0
Dimensions		mm	1483×791×385	1686×870×450

Outdoor unit		**MVAS2242T**	**MVAS2802T**
Type of fan	Type	Axial inverter	
Type of compressor	Type	Rotary Inverter	
Refrigerant:	Type	R410A	R410A
Refrigerant load	kg	5,5	7,1
Global heating potential	GWP	2088 $kgCO_2eq$	2088 $kgCO_2eq$
Dimensions	mm	940×1430×320	940×1615×460

Electrical data			
Nominal input power (5)	kW	9,6	12,5
Refrigeration Pipework			
Diameter of liquid refrigerant connections	mm (inch)	9,52 (3/8")	22,2 (7/8")
Diameter of refrigerant gas conn	mm (inch)	19,05 (3/4")	22,2 (7/8")
Type of cooling connections	Type	To be soldered	
Outdoor Unit Supply		380-415V ~ 3N 50/60Hz	380-415V ~ 3N 50/60Hz

(1) Cooling (EN 14511 and EN 14825) room air temperature 27 °C d.b. / 19 °C w.b.; Outside air temperature 35 °C; turbo speed; cooling line length 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) Heating (EN 14511 and EN 14825) Room air temperature 20°C d.b.; Outside air temperature 7 °C d.b.; / 6 °C w.b.; turbo speed; cooling line length 5 m.
(4) Sound pressure measured in an anechoic chamber at a distance of 1.5m from the front of the unit.
(5) The nominal input power (nominal input current) is the maximum electrical input power (maximum input current) to the system, in accordance with standards EN 60335-1 and EN 60335-2-40.
NB: the quantity of refrigerant gas to be added refers to a line length greater than 5 m.

LPG

monosplit

- **X-FAN function**
- **1 W of absorption in stand-by**
- **Wi-fi control using the relative accessory**

The monosplit air conditioners of the LPG range are combined with:
LPG_D (Duct) for duct type horizontal installation.
LPG_C / CS (Cassette) for false ceiling installation.
LPG_F (Floor ceiling) wall and/or ceiling installation.

Operating mode: cooling, heating, dehumidification, automatic and ventilation only.

Low cooling function:
cooling with outside temperatures down to -20 °C.

Low heating function:
heating with outside temperatures down to -20 °C.

ACCESSORIES*

WRC50: Flush panel with LCD display and Soft-Touch keys.
WRC50W: Flush panel with LCD display and Soft-Touch keys. With this accessory it is possible to control not only the traditional system functions but also a weekly timer with daily time slots. It is equipped with WiFi and Bluetooth® connection for better connection stability.
For more information about the accessories and their functions (such as the auto-restart function), refer to the specific documentation of the single accessory.
CC2: centralised control (7" touchscreen display). *The use of the CC2 centralised control requires the installation of 1 MINIMODBUS20 for each indoor unit installed.*
MINIMODBUS20: permette lo scambio di informazioni tra le unità con sistemi BMS attraverso uno standard ModBus (RTU).
GLG40S: air delivery and intake grille measuring 620x620 mm for cassette-type indoor units.
GLG40: air delivery and intake grille measuring 950x950 mm for cassette-type indoor units.
DCG10: This accessory makes it possible to remotely control the main functions of the unit via the relay externally with third-party loads that are suitably powered and sized.
ECD10: This accessory makes it possible to manage the switching on/off of the indoor units via the ON-OFF device.

* For more information about the accessories and their compatibility, refer to the product data sheet and the specific documentation of the accessory itself.

LPG

Outdoor unit			LPG350	LPG500	LPG700	LPG850	LPG1000	LPG1000T	LPG1200	LPG1200T	LPG1400	LPG1400T	LPG1600T
Fan													
Type of fan		Type	Axial inverter										
Air flow rate	max	m^3/h	1800	2200	3600	3600	4800	4800	5200	5200	5200	5200	5500
Sound power	max	dB(A)	56,0	65,0	69,0	70,0	70,0	70,0	73,0	73,0	73,0	75,0	75,0
Sound pressure (1)	max	dB(A)	48,0	52,0	55,0	57,0	57,0	57,0	58,0	58,0	59,0	59,0	60,0
Compressor													
Type of compressor		Type	Rotary Inverter										
Refrigerant		Type	R32										
Refrigerant load		kg	0,57	0,85	1,50	1,50	2,10	2,10	2,25	2,25	2,80	2,80	3,50
Global heating potential		GWP	$675kgCO_2eq$										
CO_2 equivalent		t	0,38	0,57	1,01	1,01	1,42	1,42	1,52	1,52	1,89	1,89	2,36
Refrigeration Pipework													
Diameter of liquid refrigerant connections		mm (inch)	6,35 (1/4")	6,35 (1/4")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")
Diameter of refrigerant gas conn		mm (inch)	9,52 (3/8")	12,7 (1/2")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")
Maximum refrigerant tube length		m	30	30	30	30	75	75	75	75	75	75	75
Maximum refrigerant line level difference		m	15,0	20,0	20,0	25,0	30,0	30,0	30,0	30,0	30,0	30,0	30,0
Refrigerant to be added		g/m	16	16	20	20	20	20	20	20	35	35	35
Power supply			220-240V ~ 50Hz					380-415V 3N ~ 50Hz	220-240V ~ 50Hz	380-415V 3N ~ 50Hz	220-240V ~ 50Hz	380-415V 3N ~ 50Hz	
Dimensions		mm	732x 330x553	802x 350x553	958x 402x660	1020x 402x820	1020x 427x820						1070x 427x960

(1) Sound pressure measured in an anechoic chamber at a distance of 1.5m from the front of the unit.

LPG_D

Indoor Unit			LPG350D	LPG500D	LPG700D	LPG850D	LPG1000D	LPG1200D	LPG1400D
Outdoor unit			**LPG350**	**LPG500**	**LPG700**	**LPG850**	**LPG1000**	**LPG1200**	**LPG1400**
Nominal performance in cooling mode									
Cooling Capacity (1)		kW	3,50	5,30	7,10	8,50	10,50	12,10	13,40
Total input power (cooling) (1)		kW	1,03	1,51	1,92	2,50	3,00	3,58	4,50
EER (2)		W/W	3,40	3,51	3,70	3,40	3,50	3,38	2,98
Moisture removed		l/h	1,0	1,7	2,4	2,8	3,3	3,7	3,9
Minimum and maximum cooling performance									
Cooling capacity:	min / max	kW	0,90/4,00	1,60/5,80	2,40/7,60	2,90/9,00	3,20/11,00	3,60/13,10	4,00/14,20
Input power (cooling)	min / max	kW	0,20/1,30	0,30/1,80	0,50/2,60	0,75/3,30	0,90/4,00	1,10/5,30	1,35/5,60
Seasonal efficiency									
SEER		W/W	6,50	6,30	6,60	6,40	6,40	6,10	6,10
Energy efficiency class (3)			A++	A++	A++	A++	A++	-	-
Pdesignc		kW	3,5	5,3	7,1	8,5	10,5	-	-
Annual Power Consumption		kWh/annum	189	294	377	465	574	-	-
Nominal performance in heating mode									
Heating capacity (4)		kW	4,00	5,60	8,00	8,80	11,50	13,50	15,50
Total input power (heating) (4)		kW	1,00	1,42	2,00	2,25	2,80	3,70	4,50
COP (2)		W/W	4,00	3,94	4,00	3,91	4,11	3,65	3,44
Minimum and maximum heating performance									
Heating capacity	min / max	kW	0,90/4,50	1,60/6,10	2,20/8,60	2,50/9,50	3,00/12,50	3,60/14,50	3,90/16,00
Input power (heating mode)	min / max	kW	0,20/1,30	0,30/1,85	0,50/2,60	0,75/3,30	0,90/4,00	0,90/4,00	1,35/5,60
Seasonal efficiency (temperate climate)									
SCOP			4,00	4,00	4,10	4,10	4,20	4,10	4,00
Energy efficiency class (3)			A+	A+	A+	A+	A+	-	-
Pdesignh		kW	3,00	3,90	4,70	6,00	7,00	-	-
Annual Power Consumption		kWh/annum	1050	1365	1605	2049	2333	-	-

Electrical data									
Nominal input power (5)		kW	1,3	1,9	2,8	3,3	4,7	5,3	5,6
Nominal input power (5)		A	6,0	9,5	14,0	15,0	21,0	23,0	25,0
Fan									
Type of fan		Type	Inverter centrifugal						
Air flow rate	turbo/max/med/min	m^3/h	600/550/500/400	900/800/700/600	1100/1000/900/800	1400/1300/1100/1000	1700/1600/1400/1200	2000/1800/1600/1400	2300/2100/1800/1500
High static pressure	nominal/min/max	Pa	25/0/80	25/0/80	26/0/160	37/0/160	37/0/150	50/0/155	50/0/200
Sound pressure (6)	turbo/max/med/min	dB(A)	35/33/32/30	36/35/33/31	37/35/33/31	43/41/39/37	39/38/37/36	43/42/41/40	43/42/40/38
Refrigeration Pipework									
Diameter of liquid refrigerant connections		mm (inch)	6,35 (1/4")	6,35 (1/4")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")
Diameter of refrigerant gas conn		mm (inch)	9,52 (3/8")	12,7 (1/2")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")
Condensate Discharge Diameter		mm	26,0	26,0	26,0	26,0	26,0	26,0	26,0
Power supply			220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz
Dimensions		mm	710X450X200	1000X450X200	900X655X260	900X655X260	1340X655X260	1340X655X260	1400X700X300

(1) Cooling (EN 14511 and EN 14825) room air temperature 27 °C d.b. / 19 °C w.b.; Outside air temperature 35 °C; turbo speed; cooling line length 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) Room air temperature 20°C d.b.; Outside air temperature 7 °C d.b.; / 6 °C w.b.; turbo speed; cooling line length 5 m.
(5) The nominal input power (nominal input current) is the maximum electrical input power (maximum input current) to the system, in accordance with standards EN 60335-1 and EN 60335-2-40.
(6) Sound pressure measured in an anechoic chamber at a distance of 1.5m from the front of the unit.

LPG_D

Indoor Unit			LPG1000D	LPG1200D	LPG1400D	LPG1600D
Outdoor unit			**LPG1000T**	**LPG1200T**	**LPG1400T**	**LPG1600T**
Prestazioni in raffrescamento nominali						
Cooling Capacity (1)		kW	10,50	12,10	13,40	16,00
Total input power (cooling) (1)		kW	3,00	3,58	4,50	5,40
EER (2)		W/W	3,50	3,38	2,98	2,96
Moisture removed		l/h	3,3	3,7	3,9	4,6
Minimum and maximum cooling performance						
Cooling capacity:	min / max	kW	3,20/11,00	3,60/13,10	4,00/14,20	4,80/17,00
Input power (cooling)	min / max	kW	0,90/4,00	1,10/5,30	1,35/5,60	1,50/6,80
Seasonal efficiency						
SEER		W/W	6,40	6,10	6,10	6,10
Energy efficiency class (3)			A++	-	-	-
Pdesignc		kW	10,5	-	-	-
Annual Power Consumption		kWh/annum	574	-	-	-
Nominal performance in heating mode						
Heating capacity (4)		kW	11,50	13,50	15,50	17,00
Total input power (heating) (4)		kW	2,80	3,70	4,50	4,70
COP (2)		W/W	4,11	3,65	3,44	3,62
Minimum and maximum heating performance						
Heating capacity	min / max	kW	3,00/12,50	3,60/14,50	3,90/16,00	4,50/18,00
Input power (heating mode)	min / max	kW	0,90/4,00	1,10/5,30	1,35/5,60	1,50/6,80
Seasonal efficiency (temperate climate)						
SCOP			4,20	4,10	4,00	4,00
Energy efficiency class (3)			A+	-	-	-
Pdesignh		kW	7,00	-	-	-
Annual Power Consumption		kWh/annum	2333	-	-	-

Electrical data						
Nominal input power (5)		kW	4,4	5,3	5,6	6,8
Nominal input power (5)		A	7,0	9,0	11,0	12,0
Fan						
Type of fan		Type	Centrifugo inverter			
Air flow rate	turbo/max/med/min	m^3/h	1700/1600/1400/1200	2000/1800/1600/1400	2300/2100/1800/1500	2600/2300/2000/1700
High static pressure	nominal/min/max	Pa	50/0/155	50/0/150	50/0/200	50/0/200
Sound pressure (6)	turbo/max/med/min	dB(A)	39/38/37/36	43/42/41/40	43/42/40/38	46/44/42/40
Refrigeration Pipework						
Diameter of liquid refrigerant connections		mm (inch)	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")
Diameter of refrigerant gas conn		mm (inch)	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")
Condensate Discharge Diameter		mm	26,0	26,0	26,0	26,0
Power supply			380-415V 3N ~ 50Hz	380-415V 3N ~ 50Hz	380-415V 3N ~ 50Hz	380-415V 3N ~ 50Hz
Dimensions		mm	1340X655X260	1340X655X260	1400X700X300	1400X700X300

(1) Raffrescamento (EN 14511 e EN 14825) temperatura aria ambiente 27 °C b.s. / 19 °C b.u.; temperatura aria esterna 35 °C; velocità turbo; lunghezza linee frigorifere 5 m.
(2) EER/COP in accordo alla Normativa (EN 14511), dichiarati solo al fine delle detrazioni fiscali in vigore all'atto della realizzazione di questa pubblicazione.
(3) Dati in accordo con il regolamento delegato (UE) N.626/2011.
(4) Riscaldamento (EN 14511 e EN 14825) temperatura aria ambiente 20 °C b.s.; temperatura aria esterna 7 °C b.s. / 6 °C b.u.; velocità turbo; lunghezza linee frigorifere 5 m.
(5) La potenza nominale assorbita (corrente nominale assorbita), è la massima potenza elettrica assorbita (corrente massima assorbita) dal sistema, in accordo con la normativa EN 60335-1 e EN 60335-2-40.
(6) Pressione sonora misurata in camera anecoica a 1,5 m di distanza frontale.

LPG_CS

Indoor Unit			LPG350CS	LPG500CS
Outdoor unit			**LPG350**	**LPG500**
Nominal performance in cooling mode				
Cooling Capacity (1)		kW	3,50	5,00
Total input power (cooling) (1)		kW	0,92	1,47
EER (2)		W/W	3,80	3,40
Moisture removed		l/h	1,0	1,7
Minimum and maximum cooling performance				
Cooling capacity:	min / max	kW	0,90/4,00	1,60/5,20
Input power (cooling)	min / max	kW	0,20/1,30	0,30/1,80
Seasonal efficiency				
SEER		W/W	7,10	6,60
Energy efficiency class (3)			A++	A++
Pdesignc		kW	3,5	5,0
Annual Power Consumption		kWh/annum	173	266
Nominal performance in heating mode				
Heating capacity (4)		kW	4,00	5,60
Total input power (heating) (4)		kW	1,00	1,60
COP (2)		W/W	4,00	3,50
Minimum and maximum heating performance				
Heating capacity	min / max	kW	0,90/4,50	1,60/6,10
Input power (heating mode)	min / max	kW	0,20/1,30	0,30/1,80
Seasonal efficiency (temperate climate)				
SCOP			4,20	4,00
Energy efficiency class (3)			A+	A+
Pdesignh		kW	3,10	3,90
Annual Power Consumption		kWh/annum	1034	1365

Electrical data				
Nominal input power (5)		kW	1,3	1,9
Nominal input power (5)		A	6,0	9,5
Fan				
Type of fan		Type	Inverter centrifugal	
Air flow rate	turbo/max/med/min	m^3/h	600/550/500/400	720/650/600/500
Sound pressure (6)	turbo/max/med/min	dB(A)	36/35/33/29	43/41/39/35
Refrigeration Pipework				
Diameter of liquid refrigerant connections		mm (inch)	6,35 (1/4")	6,35 (1/4")
Diameter of refrigerant gas conn		mm (inch)	9,52 (3/8")	12,7 (1/2")
Condensate Discharge Diameter		mm	25	25
Power supply			220-240V ~ 50Hz	220-240V ~ 50Hz
Dimensions		mm	570X570X260	570X570X260

(1) Cooling (EN 14511 and EN 14825) room air temperature 27 °C d.b. / 19 °C w.b.; Outside air temperature 35 °C; turbo speed; cooling line length 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) Room air temperature 20°C d.b.; Outside air temperature 7 °C d.b.; / 6 °C w.b.; turbo speed; cooling line length 5 m.
(5) The nominal input power (nominal input current) is the maximum electrical input power (maximum input current) to the system, in accordance with standards EN 60335-1 and EN 60335-2-40.
(6) Sound pressure measured in an anechoic chamber at a distance of 1.5m from the front of the unit.

LPG_C

Indoor Unit			LPG700C	LPG850C	LPG1000C	LPG1000C	LPG1200C	LPG1200C	LPG1400C	LPG1400C	LPG1600C
Outdoor unit			**LPG700**	**LPG850**	**LPG1000**	**LPG1000T**	**LPG1200**	**LPG1200T**	**LPG1400**	**LPG1400T**	**LPG1600T**
Nominal performance in cooling mode											
Cooling Capacity (1)		kW	7,10	8,50	10,50	10,50	12,10	12,10	13,40	13,40	14,50
Total input power (cooling) (1)		kW	2,03	2,50	3,10	3,10	3,90	3,90	4,60	4,60	1,50
EER (2)		W/W	3,50	3,40	3,40	3,40	3,10	3,10	2,91	2,91	2,74
Moisture removed		l/h	2,4	2,8	3,3	3,3	3,7	3,7	3,9	3,9	4,8
Minimum and maximum cooling performance											
Cooling capacity:	min / max	kW	2,40/7,60	2,90/9,00	3,20/11,00	3,20/11,00	3,60/13,10	3,60/13,10	4,00/14,20	4,00/14,20	4,80/15,00
Input power (cooling)	min / max	kW	0,50/2,60	0,75/3,30	0,90/4,00	0,90/4,00	1,10/5,30	1,10/5,30	1,35/5,60	1,35/5,60	1,50/6,80
Seasonal efficiency											
SEER		W/W	6,70	6,90	6,60	6,60	6,10	6,10	6,30	6,30	6,10
Energy efficiency class (3)			A++	A++	A++	A++	-	-	-	-	-
Pdesignc		kW	7,1	8,5	10,5	10,5	-	-	-	-	-
Annual Power Consumption		kWh/ annum	371	432	557	557	-	-	-	-	-
Nominal performance in heating mode											
Heating capacity (4)		kW	7,80	8,80	11,50	11,50	13,50	13,50	15,50	15,50	17,00
Total input power (heating) (4)		kW	2,00	2,25	2,95	2,95	3,97	3,97	4,70	4,70	5,70
COP (2)		W/W	3,90	3,90	3,90	3,90	3,40	3,40	3,30	3,30	2,98
Minimum and maximum heating performance											
Heating capacity	min / max	kW	2,20/8,60	2,50/9,50	3,00/12,50	3,00/12,50	3,60/14,50	3,60/14,50	3,90/16,00	3,90/16,00	4,50/17,50
Input power (heating mode)	min / max	kW	0,50/3,50	0,75/3,30	0,90/4,00	0,90/4,00	0,10/5,30	1,10/5,30	1,35/5,60	1,35/5,60	1,50/6,80
Seasonal efficiency (temperate climate)											
SCOP			4,30	4,30	4,40	4,40	4,10	4,10	4,00	4,00	4,00
Classe efficienza energetica (3)			A+	A+	A+	A+	-	-	-	-	-
Pdesignh		kW	5,00	6,00	7,00	7,00	-	-	-	-	-
Annual Power Consumption		kWh/ annum	1628	1954	2227	2227	-	-	-	-	-
Electrical data											
Nominal input power (5)		kW	2,8	3,3	4,7	4,4	5,3	5,3	5,6	5,6	6,8
Nominal input power (5)		A	14,0	15,0	21,0	7,0	23,0	9,0	25,0	11,0	12,0
Fan											
Type of fan		Type	Centrifugo inverter								
Air flow rate	turbo/max/med/min	m³/h	1100/1000/900/800	1400/1300/1100/1000	1500/1400/1200/1000	1500/1400/1200/1000	1700/1500/1300/1100	1700/1500/1300/1100	2000/1800/1600/1400	2000/1800/1600/1400	2300/2100/1900/1600
Sound pressure (6) turbo/max/med/min		dB(A)	39/38/36/34	47/46/42/38	43/41/39/38	43/41/39/38	48/46/43/39	48/46/43/39	50/48/45/41	50/48/45/41	52/50/48/44
Refrigeration Pipework											
Diameter of liquid refrigerant connections		mm (inch)	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")
Diameter of refrigerant gas conn		mm (inch)	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")
Condensate Discharge Diameter		mm	25	25	25	25	25	25	25	25	25
Power supply			220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	380-415V 3N~ 50Hz	220-240V ~ 50Hz	380-415V 3N~ 50Hz	220-240V ~ 50Hz	380-415V 3N~ 50Hz	380-415V 3N~ 50Hz
Dimensions		mm	840X840X240						840X840X290		

(1) Cooling (EN 14511 and EN 14825) room air temperature 27 °C d.b. / 19 °C w.b.; Outside air temperature 35 °C; turbo speed; cooling line length 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) Room air temperature 20°C d.b.; Outside air temperature 7 °C d.b.; / 6 °C w.b.; turbo speed; cooling line length 5 m.
(5) The nominal input power (nominal input current) is the maximum electrical input power (maximum input current) to the system, in accordance with standards EN 60335-1 and EN 60335-2-40.
(6) Sound pressure measured in an anechoic chamber at a distance of 1.5m from the front of the unit.

LPG_F

Indoor Unit			LPG350F	LPG500F	LPG700F	LPG850F	LPG1000F	LPG1200F	LPG1400F
Outdoor unit			**LPG350**	**LPG500**	**LPG700**	**LPG850**	**LPG1000**	**LPG1200**	**LPG1400**
Nominal performance in cooling mode									
Cooling Capacity (1)		kW	3,50	5,30	7,10	8,50	10,00	12,10	13,40
Total input power (cooling) (1)		kW	0,92	1,56	2,03	2,50	2,94	3,67	4,30
EER (2)		W/W	3,80	3,40	3,50	3,40	3,40	3,30	3,12
Moisture removed		l/h	1,1	1,7	2,4	2,8	3,3	3,7	3,9
Minimum and maximum cooling performance									
Cooling capacity:	min / max	kW	0,90/4,00	1,60/5,50	2,40/7,60	2,90/9,00	3,20/10,50	3,60/13,10	4,00/14,20
Input power (cooling)	min / max	kW	0,20/1,30	0,30/1,80	0,50/2,60	0,75/3,30	0,90/4,00	1,10/5,30	1,35/5,60
Seasonal efficiency									
SEER		W/W	7,20	6,50	7,20	6,80	6,30	6,30	6,30
Energy efficiency class (3)			A++	A++	A++	A++	A++	-	-
Pdesignc		kW	3,5	5,3	7,1	8,5	10,0	-	-
Annual Power Consumption		kWh/ annum	170	285	345	438	556	-	-
Nominal performance in heating mode									
Heating capacity (4)		kW	4,00	5,60	7,70	8,80	11,50	13,50	15,50
Total input power (heating) (4)		kW	0,93	1,44	1,95	2,25	2,95	3,75	4,20
COP (2)		W/W	4,30	3,90	3,95	3,90	3,90	3,60	3,69
Minimum and maximum heating performance									
Heating capacity	min / max	kW	0,90/4,50	1,60/6,10	2,20/8,40	2,50/9,50	3,00/12,00	3,60/14,50	3,90/16,00
Input power (heating mode)	min / max	kW	0,20/1,35	0,30/1,80	0,50/2,60	0,75/3,30	0,90/4,00	1,10/5,30	1,35/5,60
Seasonal efficiency (temperate climate)									
SCOP			4,10	4,20	4,30	4,50	4,20	4,00	4,00
Energy efficiency class (3)			A+	A+	A+	A+	A+	-	-
Pdesignh		kW	3,10	3,90	4,70	6,00	7,00	-	-
Annual Power Consumption		kWh/ annum	1059	1300	1530	1867	2333	-	-

Electrical data									
Nominal input power (5)		kW	1,3	1,9	2,8	3,3	4,7	5,3	5,6
Nominal input power (5)		A	6,0	9,5	14,0	15,0	21,0	23,0	25,0
Fan									
Type of fan		Type	Inverter centrifugal						
Air flow rate	turbo/max/med/min	m^3/h	650/600/500/400	900/800/700/600	1250/1100/1000/900	1400/1300/1200/1000	1600/1500/1400/1200	1900/1800/1600/1400	2300/2100/1800/1500
Sound pressure (6)	turbo/max/med/min	dB(A)	35/34/31/28	41/40/38/36	41/39/37/35	46/45/43/39	48/46/45/43	45/43/40/38	51/48/45/43
Refrigeration Pipework									
Diameter of liquid refrigerant connections		mm (inch)	6,35 (1/4")	6,35 (1/4")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")
Diameter of refrigerant gas conn		mm (inch)	9,52 (3/8")	12,7 (1/2")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")
Condensate Discharge Diameter		mm	17	17	17	17	17	17	17
Power supply			220-240V ~ 50Hz						
Dimensions		mm	870X235X665	870X235X665	1200X235X665	1200X235X665	1200X235X665	1570X235X665	1570X235X665

(1) Cooling (EN 14511 and EN 14825) room air temperature 27 °C d.b. / 19 °C w.b.; Outside air temperature 35 °C; turbo speed; cooling line length 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) Room air temperature 20°C d.b.; Outside air temperature 7 °C d.b.; / 6 °C w.b.; turbo speed; cooling line length 5 m.
(5) The nominal input power (nominal input current) is the maximum electrical input power (maximum input current) to the system, in accordance with standards EN 60335-1 and EN 60335-2-40.
(6) Sound pressure measured in an anechoic chamber at a distance of 1.5m from the front of the unit.

Indoor Unit			LPG1000F	LPG1200F	LPG1400F	LPG1600F
Outdoor unit			**LPG1000T**	**LPG1200T**	**LPG1400T**	**LPG1600T**
Nominal performance in cooling mode						
Cooling Capacity (1)		kW	10,00	12,10	13,40	16,00
Total input power (cooling) (1)		kW	2,94	3,67	4,30	5,30
EER (2)		W/W	3,40	3,30	3,12	3,02
Moisture removed		l/h	3,3	3,7	3,9	4,7
Minimum and maximum cooling performance						
Cooling capacity:	min / max	kW	3,20/10,50	3,60/13,10	4,00/14,20	4,80/17,00
Input power (cooling)	min / max	kW	0,90/4,00	1,10/5,30	1,35/5,60	1,50/6,80
Seasonal efficiency						
SEER		W/W	6,30	6,30	6,30	6,10
Energy efficiency class (3)			A++	-	-	-
Pdesignc		kW	10,0	-	-	-
Annual Power Consumption		kWh/annum	556	-	-	-
Nominal performance in heating mode						
Heating capacity (4)		kW	11,50	13,50	15,50	17,00
Total input power (heating) (4)		kW	2,95	3,75	4,20	4,80
COP (2)		W/W	3,90	3,60	3,69	3,54
Minimum and maximum heating performance						
Heating capacity	min / max	kW	3,00/13,50	3,60/14,50	3,90/16,00	4,50/17,50
Input power (heating mode)	min / max	kW	0,60/4,05	0,60/5,30	0,80/5,95	0,85/5,95
Seasonal efficiency (temperate climate)						
SCOP			4,20	4,00	4,00	4,00
Energy efficiency class (3)			A+	-	-	-
Pdesignh		kW	7,00	-	-	-
Annual Power Consumption		kWh/annum	2333	-	-	-

Electrical data						
Nominal input power (5)		kW	4,4	5,3	5,6	6,8
Nominal input power (5)		A	7,0	9,0	11,0	12,0
Fan						
Type of fan		Type	Centrifugal			
Air flow rate	turbo/max/med/min	m^3/h	1600/1500/1400/1200	1900/1800/1600/1400	2300/2100/1800/1500	2400/2200/1900/1600
Sound pressure (6)	turbo/max/med/min	dB(A)	48/46/45/43	45/43/40/38	51/48/45/43	53/51/48/44
Refrigeration Pipework						
Diameter of liquid refrigerant connections		mm (inch)	9,52 (3/8″)	9,52 (3/8″)	9,52 (3/8″)	9,52 (3/8″)
Diameter of refrigerant gas connections		mm (inch)	15,9 (5/8″)	15,9 (5/8″)	15,9 (5/8″)	15,9 (5/8″)
Condensate Discharge Diameter		mm	17	17	17	17
Power supply			380-415V 3N ~ 50Hz			
Dimensions		mm	1200X235X665	1570X235X665	1570X235X665	1570X235X665

(1) Cooling (EN 14511 and EN 14825) room air temperature 27 °C d.b. / 19 °C w.b.; Outside air temperature 35 °C; turbo speed; cooling line length 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) Room air temperature 20°C d.b.; Outside air temperature 7 °C d.b.; / 6 °C w.b.; turbo speed; cooling line length 5 m.
(5) The nominal input power (nominal input current) is the maximum electrical input power (maximum input current) to the system, in accordance with standards EN 60335-1 and EN 60335-2-40.
(6) Sound pressure measured in an anechoic chamber at a distance of 1.5m from the front of the unit.

Multisplit

Multisplit air conditioners are formed of an outdoor unit connected to up to 5 indoor units. It heats or cools multiple environments simultaneously.

Aermec's multisplit air conditioners have a cooling capacity range from **4.1 kW** to **13 kW**, and there is a reversible heat pump version as well.
Equipped with efficient DC inverter compressors and innovative technology, these air conditioners guarantee energy savings, reduced variations in temperature and exceptionally low noise levels.
The special pre-charged electrostatic filter ensures that the conditioned air is even more clean and healthy. Its filtration efficiency is remarkable - up to ten times that of a normal filter, even on smaller per particles.

MGE

multisplit

ACCESSORIES*

* For more information about the accessories and their compatibility, refer to the product data sheet and the specific documentation of the accessory itself.

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

Outdoor unit			MGE420	MGE520	MGE630	MGE830
Nominal performance in cooling mode						
Cooling Capacity (1)		kW	4,10	5,30	6,15	7,90
Total input power (cooling) (1)		kW	1,27	1,64	1,91	2,45
EER (2)		W/W	3,23	3,23	3,23	3,23
Minimum and maximum cooling performance						
Cooling capacity:	min / max	kW	1,47/ 4,98	2,29/ 5,71	1,99/ 6,59	3,18/ 8,21
Input power (cooling)	min / max	kW	0,12/ 1,67	0,69/ 2,00	0,18/ 2,20	0,29/ 3,10
Seasonal efficiency						
SEER		W/W	5,60	6,10	6,10	6,10
Energy efficiency class (3)			A+	A++	A++	A++
Annual Power Consumption		kWh/annum	258	309	350	453
Nominal performance in heating mode						
Heating capacity (4)		kW	4,40	5,57	6,45	8,20
Total input power (heating) (4)		kW	1,27	1,50	1,74	2,21
COP (2)		W/W	3,71	3,71	3,71	3,71
Minimum and maximum heating performance						
Input power	min / max	kW	1,52/4,98	2,40/5,74	1,99/6,68	2,29/8,50
Input power (heating mode)	min / max	kW	0,12/1,67	0,60/1,78	0,35/1,80	0,37/2,90
Seasonal efficiency (temperate climate)						
SCOP		W/W	3,80	3,80	4,00	4,00
Energy efficiency class (3)			A	A	A+	A+
Annual Power Consumption		kWh/annum	1400	1768	1910	1960
Type of fan				Axial		
Air flow rate	max	m^3/h	2100	2100	3000	3000
Sound power	max	dB(A)	64,0	65,0	65,0	67,0
Sound pressure (5)	max	dB(A)	56,0	54,0	58,0	58,0
Type of compressor		tipo		Rotary		
Refrigerant:		tipo		R32		
Refrigerant load		kg	1,10	1,25	1,50	1,85
Global heating potential		GWP	675kgCO2eq	675kgCO2eq	675kgCO2eq	675kgCO2eq
CO_2 equivalent		t	0,74	0,84	1,01	1,24
Dimensions		mm	899X378X596	899X378X596	963X396X700	1001X427X790
Electrical data						
Nominal input power (6)		kW	2,8	3,1	3,9	4,1
Nominal input current (6)		A	12,0	13,0	17,0	18,0
Tube length						
Diameter of liquid refrigerant connections		mm (inch)		6,35 (1/4")		
Diameter of refrigerant gas conn		mm (inch)		9,52 (3/8")		
Maximum single cooling line length		m	40	40	60	60
Maximum cooling line level difference (indoor/indoor)		m	10,0	10,0	10,0	10,0
Maximum cooling line level difference (indoor/outdoor)		m	15,0	15,0	15,0	15,0
Power supply				220-240V ~ 50Hz		

(1) Cooling (EN 14511 and EN 14825) room air temperature 27 °C d.b. / 19 °C w.b.; Outside air temperature 35 °C; turbo speed; cooling line length 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) Room air temperature 20°C d.b.; Outside air temperature 7 °C d.b.; / 6 °C w.b.; turbo speed; cooling line length 5 m.
(5) Sound pressure measured in an anechoic chamber at a distance of 1.5m from the front of the unit.
(6) The nominal input power (nominal input current) is the maximum electrical input power (maximum input current) to the system, in accordance with standards EN 60335-1 and EN 60335-2-40. All the technical data refer to the respective combinations of indoor units permitted.

SGE_W

multisplit
wall-mounted installation

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.

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.

ACCESSORIES*

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

Indoor Unit			**SGE200W**	**SGE250W**	**SGE350W**	**SGE500W**
Nominal performance in cooling mode						
Cooling Capacity		kW	2,05	2,77	3,46	5,27
Nominal performance in heating mode						
Heating capacity (2)		kW	2,34	2,93	3,57	4,97
Type of fan		tipo	Tangential			
Air flow rate	min / med / max	m^3/h	325/ 360/460/	325/360/466	314 / 430 /540	540 / 680 /840
Sound power	max	dB(A)	54,0	54,0	55,0	56,0
Sound pressure (4)	min / med / max	dB(A)	21,0 /26,0/ 40,0	25,0/32,0/ 38,5	25,0/34,5/ 40,5	26,0/36,0/ 42,5
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 conn		mm (inch)	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	12,7 (1/2")
Power supply			220-240V ~ 50Hz			

(1) Cooling (EN 14511 and EN 14825) room air temperature 27 °C d.b. / 19 °C w.b.; Outside air temperature 35 °C; turbo speed; cooling line length 5 m.
(2) Heating (EN 14511 and EN 14825) Room air temperature 20°C d.b.; Outside air temperature 7 °C d.b.; / 6 °C w.b.; turbo speed; cooling line length 5 m.
(3) The nominal input power (nominal input current) is the maximum electrical input power (maximum input current) to the system, in accordance with standards EN 60335-1 and EN 60335-2-40.
(4) Sound pressure measured in an anechoic chamber at a distance of 1.5m from the front of the unit.

MPG

multisplit

ACCESSORIES*

WRCB: Wired panel with liquid crystal display and soft-touch buttons, equipped with an integrated wi-fi module.
WRCA: wired panel with liquid crystal display and soft-touch buttons.
CC2: centralised control (7" touchscreen display).
DCK: remote contact kit.
GLG40S: air delivery and intake grille measuring 620x620 mm for cassette-type indoor units.
GLG40: air delivery and intake grille measuring 950x950 mm for cassette-type indoor units.
IC-2P*

* For more information about the accessories and their compatibility, refer to the product data sheet and the specific documentation of the accessory itself.

Outdoor unit			MPG420	MLPG520	MPG630	MPG730	MPG840	MPG1040	MPG1250
Nominal performance in cooling mode									
Cooling Capacity (1)		kW	4,10	5,30	6,10	7,10	8,00	10,60	12,10
Total input power (cooling) (1)		kW	1,10	1,48	1,48	1,88	2,12	3,00	3,40
EER (2)		W/W	3,73	3,58	4,12	3,78	3,77	3,53	3,56
Minimum and maximum cooling performance									
Cooling capacity:	min / max	kW	2,05 / 5,00	2,14 / 5,80	2,20 / 8,30	2,30 / 9,20	2,30 / 11,00	2,60/12,00	2,60/15,20
Input power (cooling)	min / max	kW	0,20 / 2,20	0,30 / 2,50	0,40 / 2,90	0,60 / 3,40	0,80 / 3,60	0,60/4,60	0,60/4,60
Seasonal efficiency									
SEER		W/W	6,70	6,50	6,90	6,50	6,10	6,50	6,48
Energy efficiency class (3)			A++	A++	A++	A++	A++	A++	-
Annual Power Consumption		kWh/ annum	214	285	309	382	459	571	-
Nominal performance in heating mode									
Heating capacity (4)		kW	4,40	5,65	6,50	8,60	9,50	12,00	13,00
Total input power (heating) (4)		kW	0,97	1,25	1,43	2,23	2,20	3,04	3,19
COP (2)		W/W	4,54	4,52	4,55	3,86	4,32	3,95	4,08
Minimum and maximum heating performance									
Heating capacity	min / max	kW	2,49 / 5,40	2,58 / 6,50	3,60 / 8,50	3,65 / 9,20	3,65 / 10,25	3,00/14,00	3,00/15,50
Input power (heating mode)	min / max	kW	0,30 / 2,25	0,40 / 2,50	0,40 / 2,90	0,60 / 3,00	0,70 / 3,60	0,80/5,00	0,80/5,00
Seasonal efficiency (temperate climate)									
SCOP			4,00	4,00	3,80	3,80	4,00	3,80	3,80
Energy efficiency class (3)			A+	A+	A	A	A+	A	-
Annual Power Consumption		kWh/ annum	1295	1435	2247	2247	2345	3795	-

Outdoor unit									
Type of fan		Type	Axial inverter						
Air flow rate	max	m^3/h	2300	2300	3800	3800	3800	5800	5800
Sound power	max	dB(A)	62,0	64,0	68,0	68,0	68,0	70,0	74,0
Sound pressure (1 m) (5)	max	dB(A)	52,0	54,0	58,0	58,0	58,0	60,0	60,0
Type of compressor		Type	Rotary inverter						
Refrigerant:		Type	R32	R32	R32	R32	R32	R32	R32
Refrigerant load		kg	0,75	0,90	1,60	1,70	1,80	2,40	2,40
Global heating potential		GWP	675kgCO_2eq						
CO_2 equivalent		t	0,51	0,61	1,08	1,15	1,22	1,62	1,62
Dimensions		mm	822x352x555	822x352x555	964x402x660	964x402x660	964x402x660	1020x427x826	1020x427x826

Electrical data									
Nominal input power (6)		kW	2,3	2,5	2,9	3,4	3,6	5,0	5,0
Nominal input power (6)		A	10,0	11,0	12,9	15,0	16,0	21,7	21,7
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")	6,35 (1/4")		
Diameter of refrigerant gas conn		mm (inch)	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")		
Maximum refrigerant tube length		m	40	40	60	60	70		
Maximum single cooling line length		m	20	20	20	20	20		
Maximum cooling line level difference (indoor/indoor)		m	15	15	15	15	15		
Maximum cooling line level difference (indoor/outdoor)		m	15	15	15	15	15		
Refrigerant to be added		g/m	20	20	20	20	20		
Power supply			220-240V ~ 50Hz						

(1) Cooling (EN 14511 and EN 14825) room air temperature 27 °C d.b. / 19 °C w.b.; Outside air temperature 35 °C; turbo speed; cooling line length 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) Room air temperature 20°C d.b.; Outside air temperature 7 °C d.b.; / 6 °C w.b.; turbo speed; cooling line length 5 m.
(5) Sound pressure measured in an semi-anechoic chamber at a distance of 1m from the front of the unit.
(6) The nominal input power (nominal input current) is the maximum electrical input power (maximum input current) to the system, in accordance with standards EN 60335-1 and EN 60335-2-40.
All the technical data refer to the respective combinations of indoor units permitted.

SPG_W

universal
wall-mounted installation

- **X-FAN function**
- **Possibility of Wi-Fi control, using the accessory**
- **Special coil with Blue Fin coating**

The units of the **SPG_W** range are **wall** type indoor units designed for indoor wall installation.
Universal indoor units: all of the indoor units can be combined with both outdoor monosplit units of the SPG range and outdoor multisplit units of the MPG range.

SPG	200W	250W	350W	500W	700W
Multisplit indoor units SPG		•	•	•	•
Multisplit indoor units MPG	•	•	•	•	•

Indoor Unit			SPG200W	SPG250W	SPG350W	SPG500W	SPG700W
Nominal performance in cooling mode							
Cooling Capacity (1)		kW	2,20	2,50	3,20	4,60	6,20
Moisture removed		l/h	0,6	0,6	1,4	1,8	1,8
Nominal performance in heating mode							
Heating capacity (2)		kW	2,40	2,80	3,40	5,20	6,50
Electrical data							
Nominal input power (3)		W	13	13	23	38	38
Type of fan		type			Inverter centrifugal		
Air flow rate	min / max	m^3/h	250 / 470	270 / 470	320 / 520	600 / 800	650 / 950
Sound power	min / max	dB(A)	34,0 / 49,0	34,0 / 48,0	38,0 / 49,0	44,0 / 52,0	49,0 / 58,0
Sound pressure (4)	min / max	dB(A)	22,0 / 36,0	22,0 / 36,0	26,0 / 37,0	34,0 / 42,0	35,0 / 44,0
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")	6,35 (1/4")
Diameter of refrigerant gas conn		mm (inch)	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	12,7 (1/2")
Condensate Discharge Diameter		mm	16,0	16,0	16,0	16,0	16,0
Power supply					220-240V ~ 50Hz		

(1) Cooling (EN 14511 and EN 14825) room air temperature 27 °C d.b. / 19 °C w.b.; Outside air temperature 35 °C; turbo speed; cooling line length 5 m.
(2) Heating (EN 14511 and EN 14825) Room air temperature 20°C d.b.; Outside air temperature 7 °C d.b.; / 6 °C w.b.; turbo speed; cooling line length 5 m.
(3) The nominal input power (nominal input current) is the maximum electrical input power (maximum input current) to the system, in accordance with standards EN 60335-1 and EN 60335-2-40.
(4) Sound pressure measured in an semi-anechoic chamber at a distance of 1m from the front of the unit.
Sound power calculated in free field, in accordance with UNI EN ISO 3744.

CKG_FS

universal
wall-mounted installation

- **New ecological refrigerant gas R32**
- **Air purifier (Cold Plasma)**
- **Wi-Fi module as standard**

The units of the **CKG_FS** range are **console** type indoor units designed for indoor wall installation.
They have a twin-delivery inverter fan unit for optimum air flow control.
Universal indoor units: all indoor units can be combined with both multisplit outdoor units of the CKG range and outdoor multisplit units of the MPG range.

Indoor Unit			CKG260FS	CKG360FS	CKG500FS
Nominal performance in cooling mode					
Cooling Capacity (1)		kW	2,70	3,52	5,20
Moisture removed		l/h	0,8	1,2	1,8
Nominal performance in heating mode					
Heating capacity (2)		kW	2,90	3,80	5,33
Electrical data					
Nominal input power (3)		W	35	40	50
Type of fan		type		Inverter centrifugal	
Air flow rate	min / max	m^3/h	280 / 430	360 / 520	410 / 650
Sound power	min / max	dB(A)	38,0 / 48,0	39,0 / 50,0	47,0 / 55,0
Sound pressure (4)	min / max	dB(A)	26,0 / 36,0	29,0 / 40,0	37,0 / 45,0
Refrigeration Pipework					
Diameter of liquid refrigerant connections		mm (inch)	6,35 (1/4")	6,35 (1/4")	6,35 (1/4")
Diameter of refrigerant gas conn		mm (inch)	9,52 (3/8")	9,52 (3/8")	12,7 (1/2")
Condensate Discharge Diameter		mm	17,0	17,0	17,0
Power supply				220-240V ~ 50Hz	

(1) Cooling (EN 14511 and EN 14825) room air temperature 27 °C d.b. / 19 °C w.b.; Outside air temperature 35 °C; turbo speed; cooling line length 5 m.
(2) Heating (EN 14511 and EN 14825) Room air temperature 20°C d.b.; Outside air temperature 7 °C d.b.; / 6 °C w.b.; turbo speed; cooling line length 5 m.
(3) The nominal input power (nominal input current) is the maximum electrical input power (maximum input current) to the system, in accordance with standards EN 60335-1 and EN 60335-2-40.
(4) Sound pressure measured in an anechoic chamber at a distance of 1.5m from the front of the unit.

MPG_CS / MPG_C

multisplit
installation in false ceilings

- **New ecological refrigerant gas R32**
- **Special coil with Blue Fin coating**

The units of the **MPG_CS** and **MPG_C** range are **8-way-cassette** type indoor units designed exclusively for installation in indoor false ceilings. They are completed with the air delivery and intake grilles, which are essential for operation.
The grilles (mandatory accessory) are fitted with fins to spread the air in the room, with a suction grille with air filter and IR remote control receiver.
The air filter is easily accessible to enable regular cleaning.

Indoor Unit			MPG350CS	MPG500CS	MPG700C
Nominal performance in cooling mode					
Cooling Capacity (1)		kW	3,50	5,00	7,00
Moisture removed		l/h	1,4	1,8	2,5
Nominal performance in heating mode					
Heating capacity (2)		kW	4,00	5,50	8,00
Electrical data					
Nominal input power (3)		W	30	35	50
Type of fan		type		Inverter centrifugal	
Air flow rate	min / max	m^3/h	380 / 540	380 / 540	830 / 1050
Sound power	min / max	dB(A)	46,0 / 55,0	46,0 / 55,0	57,0 / 61,0
Sound pressure (4)	min / max	dB(A)	30,0 / 39,0	30,0 / 39,0	38,0 / 43,0
Refrigeration Pipework					
Diameter of liquid refrigerant connections		mm (inch)	6,35 (1/4")	6,35 (1/4")	9,52 (3/8")
Diameter of refrigerant gas conn		mm (inch)	9,52 (3/8")	12,7 (1/2")	15,9 (5/8")
Condensate Discharge Diameter		mm	25,0	25,0	25,0
Power supply				220-240V ~ 50Hz	

(1) Cooling (EN 14511 and EN 14825) room air temperature 27 °C d.b. / 19 °C w.b.; Outside air temperature 35 °C; turbo speed; cooling line length 5 m.
(2) Heating (EN 14511 and EN 14825) Room air temperature 20°C d.b.; Outside air temperature 7 °C d.b.; / 6 °C w.b.; turbo speed; cooling line length 5 m.
(3) The nominal input power (nominal input current) is the maximum electrical input power (maximum input current) to the system, in accordance with standards EN 60335-1 and EN 60335-2-40.
(4) Sound pressure measured in an semi-anechoic chamber at a distance of 1m from the front of the unit.

MPG_D

multisplit
duct type horizontal installation

- **New ecological refrigerant gas R32**
- **X-FAN function**

The units of the **MPG_D** range are designed for indoor duct type horizontal installation.
They have no casing, as they are intended to be inserted in wall niches.
The air filter is easily accessible to enable regular cleaning.

Indoor Unit			MPG250D	MPG350D	MPG500D	MPG700D
Nominal performance in cooling mode						
Cooling Capacity (1)		kW	2,65	3,50	5,00	7,00
Moisture removed		l/h	0,8	1,4	1,8	2,5
Nominal performance in heating mode						
Heating capacity (2)		kW	2,80	4,00	5,50	8,00
Electrical data						
Nominal input power (3)		W	70	80	80	200
Type of fan		type	Inverter centrifugal			
Air flow rate	min / max	m^3/h	220 / 450	300 / 540	420 / 720	900 / 1200
Sound power	min / max	dB(A)	37,0 / 43,0	42,0 / 49,0	40,0 / 46,0	51,0 / 57,0
Sound pressure (4)	min / max	dB(A)	22,0 / 28,0	27,0 / 34,0	25,0 / 31,0	36,0 / 42,0
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 conn		mm (inch)	9,52 (3/8")	9,52 (3/8")	12,7 (1/2")	15,9 (5/8")
Condensate Discharge Diameter		mm	26,0	26,0	26,0	26,0
Power supply			220-240V ~ 50Hz			

(1) Cooling (EN 14511 and EN 14825) room air temperature 27 °C d.b. / 19 °C w.b.; Outside air temperature 35 °C; turbo speed; cooling line length 5 m.
(2) Heating (EN 14511 and EN 14825) Room air temperature 20°C d.b.; Outside air temperature 7 °C d.b.; / 6 °C w.b.; turbo speed; cooling line length 5 m.
(3) The nominal input power (nominal input current) is the maximum electrical input power (maximum input current) to the system, in accordance with standards EN 60335-1 and EN 60335-2-40.
(4) Sound pressure measured in an semi-anechoic chamber at a distance of 1m from the front of the unit.

MPG_DH

multisplit
duct type horizontal installation

- **New ecological refrigerant gas R32**
- **X-FAN function**

The units of the **MPG_DH** range are designed for indoor duct type horizontal installation.
They have no casing, as they are intended to be inserted in wall niches.
The air filter is easily accessible to enable regular cleaning.

Indoor Unit			MPG250DH	MPG350DH	MPG500DH	MPG700DH
Nominal performance in cooling mode						
Cooling Capacity (1)		kW	2,65	3,50	5,00	7,00
Moisture removed		l/h	0,8	1,4	1,8	2,5
Nominal performance in heating mode						
Heating capacity (2)		kW	2,80	4,00	5,50	8,00
Electrical data						
Nominal input power (3)		W	50	50	75	80
High static pressure	max	Pa	60	60	60	125
Type of fan		type	Inverter centrifugal			
Air flow rate	min / max	m^3/h	550 / 670	410 / 560	750 / 840	900 / 1200
Sound power	min / max	dB(A)	51,0 / 55,0	49,0 / 53,0	53,0 / 55,0	53,0 / 57,0
Sound pressure (4)	min / max	dB(A)	35,0 / 39,0	33,0 / 37,0	37,0 / 39,0	36,0 / 40,0
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 conn		mm (inch)	9,52 (3/8")	9,52 (3/8")	12,7 (1/2")	15,9 (5/8")
Condensate Discharge Diameter		mm	26,0	26,0	26,0	26,0
Power supply			220-240V ~ 50Hz			

(1) Cooling (EN 14511 and EN 14825) room air temperature 27 °C d.b. / 19 °C w.b.; Outside air temperature 35 °C; turbo speed; cooling line length 5 m.
(2) Heating (EN 14511 and EN 14825) Room air temperature 20°C d.b.; Outside air temperature 7 °C d.b.; / 6 °C w.b.; turbo speed; cooling line length 5 m.
(3) The nominal input power (nominal input current) is the maximum electrical input power (maximum input current) to the system, in accordance with standards EN 60335-1 and EN 60335-2-40.
(4) Sound pressure measured in an semi-anechoic chamber at a distance of 1m from the front of the unit.

Allowed combinations of indoor units

For the MPG trialsplit and quadrisplit units, it is mandatory to install at least 2 indoor units for correct functioning of the system.
For further information, please refer to the technical documentation on the website **www.aermec.com**

MPG420 (14kBtu/h)		MPG520 (18kBtu/h)		MPG630 (21kBtu/h)		MPG730 (24kBtu/h)		MPG840 (28kBtu/h)		
No. indoor units										
1	2	1	2	2	3	2	3	2	3	4
7	**7+7**	9	7+7	7+7	**7+7+7**	7+7	7+7+7	7+7	7+7+7	**7+7+7+7**
9	7+9	12	7+9	7+9	7+7+9	7+9	7+7+9	7+9	7+7+9	7+7+7+9
12	7+12		7+12	7+12	7+7+12	7+12	7+7+12	7+12	7+7+12	7+7+7+12
	9+9		**9+9**	7+18	7+9+9	7+18	7+7+18	7+18	7+7+18	7+7+7+18
	9+12		9+12	9+9	7+9+12	9+9	**7+9+9**	9+9	7+9+9	7+7+9+9
			12+12	9+12	7+12+12	9+12	7+9+12	9+12	7+9+12	7+7+9+12
				9+18	9+9+9	9+18	7+9+18	9+18	7+9+18	7+7+9+18
				12+12	9+9+12	12+12	7+12+12	12+12	7+12+12	7+7+12+12
				12+18		12+18	9+9+9	12+18	7+12+18	7+9+9+9
						18+18	9+9+12	18+18	9+9+9	7+9+9+12
							9+9+18		9+9+12	7+9+12+12
							9+12+12		9+9+18	9+9+9+9
							12+12+12		9+12+12	9+9+9+12
									9+12+18	9+9+12+12
									12+12+12	
									12+12+18	

Reference combinations

MPG1040 (36kBTU/h)			MPG1250 (42kBTU/h)					
N° unità interne								
2	3	4	2	3	4		5	
7+12	7+7+7	7+7+7+7	7+18	7+7+7	7+7+7+7	7+12+12+12	7+7+7+7+7	7+9+9+9+9
7+18	7+7+9	7+7+7+9	7+21	7+7+9	7+7+7+9	7+12+12+21	7+7+7+7+9	7+9+9+9+12
7+21	7+7+12	7+7+7+12	7+24	7+7+12	7+7+7+12	7+12+12+24	7+7+7+7+12	7+9+9+9+18
7+24	7+7+18	7+7+7+18	9+12	7+7+18	7+7+7+18	7+12+18+18	7+7+7+7+18	7+9+9+9+21
9+9	7+7+21	7+7+7+21	9+18	7+7+21	7+7+7+21	7+12+18+21	7+7+7+7+21	7+9+9+9+24
9+12	7+7+24	7+7+7+24	9+21	7+7+24	7+7+7+24	7+12+18+24	7+7+7+7+24	7+9+9+12+12
9+18	7+9+9	7+7+9+9	9+24	7+9+9	7+7+9+9	7+12+21+21	7+7+7+9+9	7+9+9+12+18
9+21	7+9+12	7+7+9+12	12+12	7+9+12	7+7+9+12	7+18+18+18	7+7+7+9+12	7+9+9+12+21
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12+24	7+12+18	7+7+12+18	18+21	7+12+18	7+7+12+18	9+9+9+24	7+7+7+12+18	7+9+12+12+21
18+18	7+12+21	7+7+12+21	18+24	7+12+21	7+7+12+21	**9+9+12+12**	7+7+7+12+21	7+12+12+12+12
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	12+12+18	9+9+12+12		9+24+24		12+12+18+18		
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	12+12+24	9+9+12+21		12+12+18				
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				18+21+21				
				18+21+24				
				21+21+21				

Combinazioni di riferimento

VRF systems

The **VRFs** are direct expansion systems, with variable refrigerant flow.
Unlike the Multisplits, which are characterised by a set flow of refrigerant, these systems allow users to adjust the amount of refrigerant in circulation, according to the actual load required by the indoor units in use.
Aermec's VRF systems allow for the installation of a minimum of 2 indoor units, up to a maximum of 80.
Their modular configuration means they cover a range from **12 kW** to **276 kW**, and there is a heat pump version with heat recovery and domestic hot water production.
These systems guarantee excellent energy efficiency, avoiding wasting energy pointlessly, and are amazingly quiet during operation.

VRF Systems: MVA

Comfort and energy savings - the best return on your investment

These direct expansion systems with variable refrigerant flow allow the quantity of circulating refrigerant to be modified to suit the real load request from the indoor units.

2-pipe heat pump

Self-configuration system
Speeds up the initial system start-up.
Wide range of indoor units
To meet any system requirement.
Personalise your VRF system
To guarantee optimum seasonal efficiency and excellent comfort with the variable refrigerant function.
Continuous comfort
Continuous heating or cooling
of the rooms is what makes the VRF system a valid alternative to hydronic systems.

3-pipe heat pump

The MVBHR VRF heat recovery system heats and cools at the same time, with one single circuit
MVAMHR recovers the heat produced during cooling
to then heat the necessary rooms
cost-free, thereby maximising energy efficiency
and reducing electricity costs.
Continuous comfort
The simultaneous heating and cooling
of the rooms is what makes the VRF system a valid alternative to hydronic systems.
Self-configuration system
Speeds up the initial system start-up.
Wide range of indoor units
To meet any system requirement.

MVAS

The MVAS heat pump range is suitable for all applications - the right balance between cost, efficiency and space.

Advantages

- Solution with limited overall dimensions, guaranteeing constantly good output levels
- Flexible installation
- Wide range of power levels available:
  cooling capacity 22.4 kW ÷ 33,5 kW
  heating capacity 24.0 kW ÷ 33,5 kW
- Inverter compressors
- Wide range of indoor units

MVAM

The MVAM heat pump range, with its consolidated technology, offers high efficiency levels and a wide choice of power levels for any type of use.

Advantages

- Cooling and heating in one single system
- Wide range of power levels available:
  cooling capacity 12.1 kW ÷ 246 kW
  heating capacity 14.0 kW ÷ 276 kW
- Wide range of indoor units
- High EER and COP values

MVBHR

The MVBHR heat pump range is the ideal solution for continuous climate variations (both seasonal and daily), always guaranteeing optimum well-being in every room of the building.

Advantages

- Simultaneous heating and cooling in one single system
- Cost-free heat recovery from the chilled areas, for the heated areas
- Wide range of power levels available:
  cooling capacity 22.4 kW ÷ 180.0 kW
  heating capacity 25.0 kW ÷ 200.0 kW
- Wide range of indoor units that can be combined with air treatment systems
- High EER and COP values

Wide choice of indoor units to suit all plant engineering solutions

indoor units
4-WAY CASSETTE
1-WAY CASSETTE

indoor units
WALL

indoor units
FLOOR CEILING

indoor units
HORIZONTAL DUCT
VERTICAL DUCT

indoor units
CONSOLE

indoor units
COLUMN

indoor units
HEAT RECOVERY

VRF

If you need help designing a refrigerant flow system, download the **VRF SELECTION** program from the following link:

http://www.aermec.com/support/downloads/vrfsetup.exe

Complementary solutions

Aermec offers a range of specific solutions that meet a range of air conditioning requirements, as well as those relating to installation under particular structural conditions.

The Aermec portable dehumidifier limits excess humidity, above all in environments where the air is often heavy and stale.
The condensed water indoor unit, which only offers cooling function, can be combined with indoor units of different types, and is suitable in environments where external installation is not permitted, such as in historical and valuable buildings.
The automatic condensed water air conditioner allows users to condition rooms without needing to use outdoor units.
The split heat pump with inverter offers heating and cooling functions, as well as producing domestic hot water, thanks to the accumulator tank.

DMT

portable dehumidifier

- **New R290 natural refrigerant gas**
- **Compact, manoeuvrable and silent**
- **Removes up to 24 litres of moisture in 24 hours**

The portable dehumidifiers of the **DMT** range are ideal for dehumidifying domestic areas like rooms, cellars, bathrooms and places where the washing is hung up to dry. They bring moisture back down to an ideal level because, if it's too high, it can lead to physical discomfort and the formation of mould in the room.

They fit in with any type of furnishings thanks to their compact, elegant design, and have wheels so they can easily be moved from one room to another and installed where needed (Plug & Play).

The excess moisture is removed by the dehumidifier via the intake grille, supplying moisture-free air to ensure a more healthy and comfortable setting.

Fitted with a specific basin for collecting the moisture taken out of the room during operation.
Their functions allow you to easily control the level of humidity, keeping it constant over time.

Unit			DMT160	DMT240
Nominal performance (1)				
Dehumidification capacity		l/h	0,66	1,00
Input power		W	370	390
Nominal performance (Standard EN 810) (2)				
Dehumidification capacity		l/h	0,40	0,48
Input power (3)		W	315	325
Nominal power (3)		A	1,7	1,8
Dati elettrici				
Nominal input power (3)		W	510	460
Nominal input power (3)		A	1,5	1,5
Fan				
Type of fan		type	centrifugal	
Air flow rate	max .	m^3/h	170	220
	min.	m^3/h	145	155
Sound power	max .	dB(A)	53,0	56,0
	min.	dB(A)	51,0	54,0
Sound pressure	max .	dB(A)	39,0	44,0
	min.	dB(A)	37,0	42,0
Compressor				
Type of compressor		tipo	Alternative	
Refrigerant		tipo	R290	R290
Refrigerant load		g	65	65
Global heating potential		GWP	3	3
CO_2 equivalent		t	0,20	0,20
Condensate drainage basin				
Capacità		l	2,6/3,0	2,6/3,0
Power cable				
Type of power cable		tipo	Schuko	
Power supply			220-240V ~ 50Hz	
Dimensions		mm	351x240x489	351x240x489

(1) Inside air temperature 30°C d.b. / 27°C w.b.
(2) Inside air temperature 27°C d.b. / 21°C w.b. (Test carried out in accordance with Standard EN 810)
(3) Test carried out in accordance with EN 60335.

The controller for every need

A wide selection of remote controls for simple, user-friendly system management. Infrared remote controls with a backlit liquid crystal display and wired panels, for controlling all the functions.

Remote controls

Compatible with:
Monosplit: SPG
Multisplit: MPG

Compatible with:
Monosplit: PSL

Compatible with:
Monosplit: SC_V

Compatible with:
Monosplit: FK

Compatible with:
Monosplit: CKG_FS

Compatible with:
Monosplit:
LPG_C, LPG_FD, LPG_CS

Compatible with:
Monosplit: SGE, SGE_W
Multisplit: MGE

Compatible with:
Sistemi VRF_MV

Wired controller

WRC

Compatible with:
Sistemi VRF_MV

WRC1

Compatible with:
Sistemi VRF_MV

WRCA

Compatibile con:
Monosplit: SPG
Multisplit: MPG, CKG

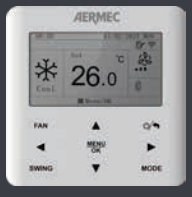
WRCB

Compatible with:
Multisplit MPG

WRC50

Compatible with:
LPG_C, LPG_FD, LPG_CS

WRC50W



Compatible with:
LPG_C, LPG_FD, LPG_CS

GSXXII-Y_03