MultiOmnia

Outdoor units DHW

The Multiwarm Multisplit range is expanding, with two outdoor units that can be connected to both standard indoor units and a 185 L tank for DHW production.

NEW

Residential heating, cooling and DHW production with a single outdoor unit.

Ability to produce DHW free of charge during the summer thanks to **heat recovery** while the air-to-air indoor units are operating in cooling mode.

-22°C
Wide operating range in heating

43°C
Wide operating range in cooling

-22°C
Wide operating range in DHW production

185L
Tank capacity

A++
Cooling energy class

up to 80°C
DHW using the electric heater

DMW WTGM

NEW

MCKGWM 1002 Z3W MCKGWM 1202 Z4W

MWTGM 200 Z4W

MultiOmnia

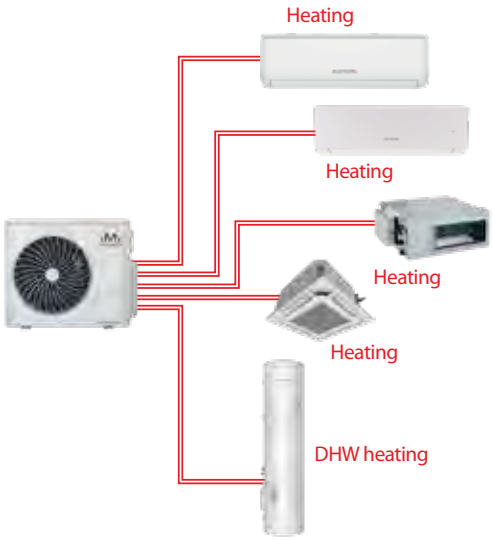
NEW

What it is and how it works

- Dedicated MCKGWM-ZW outdoor units with connections for standard indoor units plus a **dedicated connection for the DHW tank**.
- Ability to manage cooling and heating with standard direct-expansion (DX) units, and to heat domestic hot water via the tank - all with a **single refrigeration circuit and a single outdoor unit**.
- The DX indoor units are the same as the standard multisplit range, offering maximum flexibility for compatibility and connectability.

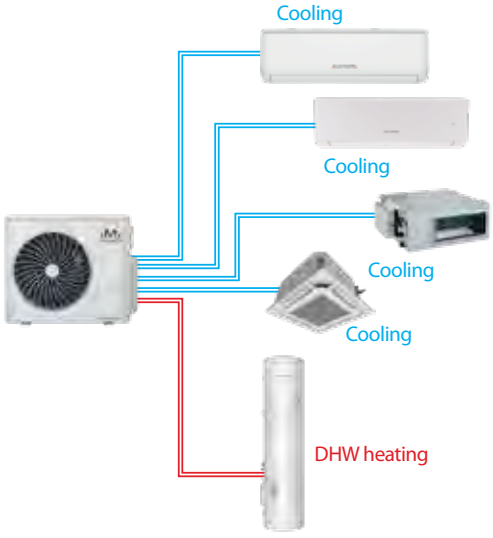
Multisplit + DHW MULTIOMNIA
Heating + DHW

Space heating via DX units and domestic **hot water heating** take place **simultaneously**. The outdoor unit distributes available capacity between the indoor units and the tank, as in a standard multisplit system.



Multisplit + DHW MULTIOMNIA
Cooling + DHW > Heat recovery

- While the DX indoor units operate in cooling mode, the refrigerant gas that would normally reject heat to the atmosphere via the outdoor unit is also diverted to the tank, reusing that heat to heat domestic hot water at no cost.
- Thanks solely to free heat recovery, the tank temperature can typically reach an average of 45°C.
- In summer operation, almost all DHW demand will be met FREE OF CHARGE.



Multiomnia

Outdoor units Multisplit + DHW

NEW

Free DHW during cooling operation of the DX units thanks to **heat recovery**.

TOP

10.6/12 kW

Nominal cooling/heating capacity for 3 connections + tank

TOP

12.1/13 kW

Nominal cooling/heating capacity for 4 connections + tank

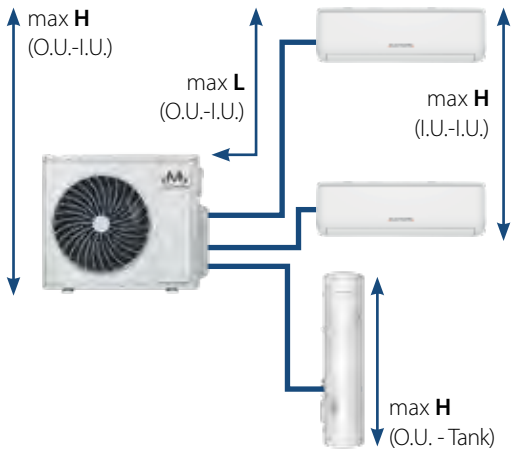
Higher outputs than everyone else, with the ability to cover combinations that do not saturate nominal capacity thanks to a connection range down to 50%.

TOP

-22°C

Minimum outdoor temperature in heating or DHW production in winter operation: Multiomnia offers the widest operating range of all competitors in its market segment

Installation flexibility



MCKGWM 1002 Z3W

L	TOTAL PIPING	= 80 m
L	MAX O.U.-I.U.	= 25 m
H	MAX O.U.-TANK	= 10 m
H	MAX O.U.-I.U.	= 25 m
H	MAX I.U.-I.U.	= 25 m

MCKGWM 1202 Z4W

L	TOTAL PIPING	= 100 m
L	MAX O.U.-I.U.	= 25 m
H	MAX O.U.-TANK	= 10 m
H	MAX O.U.-I.U.	= 25 m
H	MAX I.U.-I.U.	= 25 m

TOP

80/100 m

Better ability to meet design and installation constraints, thanks to class-leading maximum piping length.

TOP

25/25 m

Better ability to meet design and installation constraints, thanks to the best maximum height difference between indoor and outdoor units.

The values shown are the result of an internal comparative analysis with the main competitors in the relevant market segment. Values updated in September 2025 based on data in the 2025 public catalogues.

Ask your sales representative for more information.

KEY

TOP *Top feature, the best data on the market*

Silver feature, one of the best figures on the market

DHW OUTDOOR UNIT

2 CAPACITIES
10.60~12.10 kW

MAXIMUM FLEXIBILITY
ease of installation guaranteed by wide ranges of refrigerant piping splitting

AMPIO RANGE DI FUNZIONAMENTO
riscaldamento e ACS con temperature esterne fino a -22°C

HEAT RECOVERY
with connected tank, free DHW during cooling operation of the indoor air-to-air units.

MCKGWM 1002 Z3W

MCKGWM 1202 Z4W

-22°C in heating and DHW

Model		Outdoor unit	MCKGWM 1002 Z3W	MCKGWM 1202 Z4W
Type			DC-Inverter heat pump outdoor unit	
Connectable indoor units (min - max)	in addition to the tank	no.	1 - 3*	1 - 4*
	without tank		2 - 3	2 - 4
* When the tank is connected. it is mandatory to install at least one indoor unit				
Nominal data				
Nominal capacity (T=+35°C)	Cooling	kW	10.60 (2.60~12.00)	12.10 (2.60~15.20)
Nominal absorbed power (T=+35°C)		kW	2.95	3.40
Nominal energy efficiency coefficient		EER[1]	3.59	3.56
Nominal capacity (T=+7°C)	Heating	kW	12.00 (3.00~14.00)	13.00 (3.00~15.50)
Nominal absorbed power (T=+7°C)		kW	3.20	3.35
Nominal energy performance coefficient		COP[1]	3.75	3.88
Nominal capacity (T=+7°C)	DHW	kW	4.20	4.20
Nominal energy performance coefficient		COP[1]	4.56	4.56
Nominal DHW production capacity		L/h	90	90
Seasonal data				
Theoretical load (Pdesignc)	Cooling	kW	10.60	12.10
Seasonal energy efficiency index		SEER[2]	7.20	7.20
Seasonal energy efficiency class		626/2011[3]	A++	A++
Annual energy consumption		kWh/y	515	588
Theoretical load (Pdesignh) @ -10°C	Heating (average weather conditions)	kW	10.50	10.80
Seasonal performance coefficient		SCOP[2]	4.20	4.10
Seasonal energy efficiency (ηs)		%	165	161
Seasonal energy efficiency class		626/2011[3]	A+	A+
Annual energy consumption		kWh/y	3500	3600
COPDHW[4]	Sanitary Water (average weather conditions)	W/W	2.74	2.74
Test cycle profile[4]		tipo	L	L
Energy efficiency (η wh)[5]		%	115	115
Energy efficiency class[5]		814/2013	A+	A+
Electrical data				
Power supply		Ph-V-Hz	1~220~240V~50HZ	
Power cable		Type	3 x 6 mm2	3 x 6 mm2
Connection wires between each I.U. and O.U.		no.	4	4
Nominal absorbed current	Cooling	A	13.00	15.00
	Heating	A	14.00	14.80
Maximum current		A	29.50	29.50
Maximum absorbed power		kW	6.50	6.50
Refrigerant circuit data				
Refrigerant[6]		Type (GWP)	R32 (675)	
Q.ty of refrigerant pre-charge		Kg	2.40	2.40
Tons of CO2 equivalent		t	1.620	1.620
Liquid/gas refrigerant pipe diameter		mm (inches)	4 x 6.35(1/4") 4 x 9.52(3/8")	5 x 6.35(1/4") 5 x 9.52(3/8")
Total split length		m	80	100
Max length of a single refrigerant line		m	25	25
Max difference in height between tank and O.U.		m	10	10
Max difference in height U.I./O.U.		m	25	25
Max difference in height between I.U.		m	25	25
Split length without additional charge		m	40	50
Additional charge		g/m	20	20
Product specifications				
Dimensions	LxDxH	mm	1020x427x826	
Net weight		Kg	72.5	73.5
Sound power level	Max	dB(A)	70	74
Sound pressure level	Max	dB(A)	60	60
Volume of air treated		m3/h	5800	5800
Operating limits (outdoor temperature)	Cooling	°C	-15~43	
	Heating		-22~24	
	DHW		-22~43	

Seasonal energy efficiency values refer to the following combinations: **MCKGWM 1002 Z3W + 3 x MKEGM 355 ZAL; MCKGWM 1202 Z4W + 2 x MKEGM 265 ZAL + 2 x MKEGM 355 ZAL.**

1. Value measured according to harmonized standard EN14511. 2. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to harmonized standard EN14825. 3. EU Delegated Regulation No. 626/2011 on the new energy labelling of air conditioners. 4. Test according to EN16147; air 7°C, water inlet 10°C [5] Directive 2009/125/EC - ERP EU No. 814/2013 [6] Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant were released into the atmosphere, the impact on global warming would be 675 times greater than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user attempt to intervene on the refrigerant circuit or disassemble the product. In case of need, always contact qualified personnel.

TANK

ELECTRIC RESISTANCE INCLUDED
1.5 kW

Connectable only if at least one classic indoor unit is present

MAGNESIUM ANODE

35~55°C
Hot water regulation range

HEAT RECOVERY
Free DHW during cooling operation of the air-to-air indoor units.

Can only be used with outdoor units: MCKGWM 1002 Z3W, MCKGWM 1202 Z4W

Model		Indoor unit	MWTGM 200 Z4W
Type			DHW Tank
Nominal capacity		kW	4.20
Electrical data			
Power supply		Ph-V-Hz	-
Connection wires between I.U. and O.U.		no.	4
Refrigerant circuit data			
Liquid/gas refrigerant pipe diameter		mm (inches)	6.35(1/4") / 9.52(3/8")
Product specifications			
Dimensions	Volume	L	185
	DxH	mm	462x2000
	Net weight	kg	72.5
Integrative electrical resistance		W	1500
DHW connections		inches	G1/2"
Anode type		-	Magnesio
Hot water Temperature regulation range		°C	35~55
Accessories			
Wired control with WiFi integrated (NOT INCLUDED)			DMW WTGM
Optional parts			
Centralized control			NOT available

TOP

462 mm

Narrowest tank diameter on the market. This allows better water stratification, ensuring the end user always draws the hottest water available. In addition, stratification enables the heat pump to work on the coldest water possible, maximising efficiency.

TOP

80°C

With the electric heater, the DHW temperature setpoint can be increased up to 80°C - the highest value on the market.

The end user can make the most of any self-generated electricity they may have available.

WIRED CONTROL FOR DHW TANK

DMW WTGM
Obligatory

Temp +

Manually increases the storage temperature above 55°C using the electric heater, up to 80°C.

Sterilization

Anti-legionella cycle.

Holiday

Setting the absence period, the unit will activate to ensure that the DHW tank is at temperature on the day of return.

Sunflower

The water is heated to a higher temperature the higher the outside temperature, in order to maximize efficiency and reduce costs. Once active, it remains valid for the following days.

Daily and weekly timer

Set on/off times: the setting remains valid for subsequent days/weeks.

Standard mode

Automatic management of the heat pump and electrical resistance for a balanced relationship between heating times and consumption.

Quick mode

Minimizes warm-up times for rapid DHW production.

Energy saving mode

Optimizes water heating while considering energy savings.

Emergency mode

In the event of a heat pump fault, the electrical resistance is automatically activated to produce DHW.