

MULTIWARM

HIGH TECH INNOVATION

2025 air conditioning general catalogue

multiwarm.it

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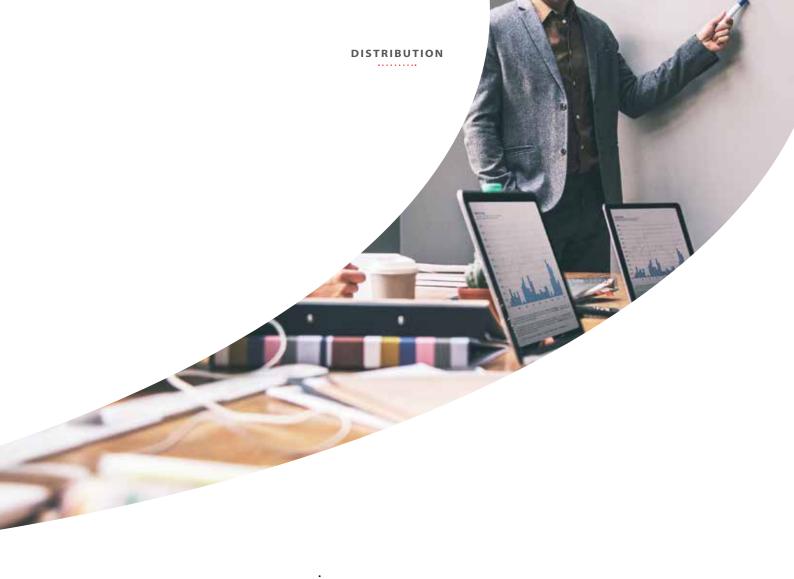
High tech innovation, total Multiwarm comfort

Multiwarm offers products capable of optimising the energy performance of buildings for heating, cooling and the production of domestic hot water.

MULTIWARM is a brand of Termal Sales, a company of the Termal Group, leader in Italy in the air conditioning sector.

Technologically advanced, MULTIWARM systems are perfectly in line with residential and commercial design needs, to achieve high quality standards.





Multiwarm guarantees full support to its installers thanks to an advanced logistics hub, for rapid deliveries of supplies and spare parts.

The Multiwarm specialist installer, always one step ahead

MULTIWARM products are marketed through the channels of **specialized sector Distributors**, present throughout the national and European territory.

The central storage center is in Bologna, at the Termal Group, and in external service logistics.

The operational hub is divided into a series of buildings dedicated to commercial, administrative and logistics activities with 4,500 m2 of storage area that guarantees rapid deliveries, a vast assortment of spare parts and accessories that can be ordered online and are available within 24 hours.

All this allows customers great operational and commercial flexibility and, therefore, strong competitiveness on the various local markets.



Those who install MULTIWARM have the certainty of working with an innovative brand.

Courses and training for professional growth

Specialists selected and certified according to the Presidential Decree 146 of 16 November 2018 and subsequent updates.

MULTIWARM organizes periodic training sessions for technical updates and improvement via **webinars** and in person at our **Academy Room**.

The training center is structured with classrooms dedicated to theoretical and practical lessons, with installed functioning products and related control systems.

The courses provide participants with in-depth knowledge of installation logic, service and maintenance techniques in the residential and commercial sectors. Here are the topics:

- > new product presentation,
- > insights into technological developments,
- > industry regulations,
- > refrigerant circuit,
- > installation and fault diagnosis problems,

At the end of the course, each participant receives a certificate of attendance and

- assistance,
- > VRF system design,
- > use of system software.

handouts on the technical topics covered.

MULTIWARM

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Wi-Fi technology at the service of the Residential, Light Commercial and VRF product ranges.

Air conditioning at your fingertips

The VRF and Residential MULTIWARM air conditioning systems allow you to control the air conditioning system, both at home and away, using applications available for iOS and Android devices (standard and optional).

Through MULTIWARM applications it is possible to manage your air conditioning system, for correct comfort and attention to consumption.



Mission: environmental protection

Multiwarm products contribute to significantly improving climate comfort, achieving substantial energy savings, and safeguarding the environment. MULTIWARM is at the forefront in the supply of efficient and innovative air conditioning systems, capable of ensuring comfort and savings on bills.

To air condition domestic and commercial environments, the systems must have at least these characteristics:

- > energy efficiency and reduced consumption;
- > innovation, functional standard and remote controls;
- > low emissions for maximum environmental protection;
- design, the refinement of the materials and the aesthetic aspect are important elements in the choice of a product;
- > silence;
- > ease of use.



Williams

RESIDENTIAL & LIGHT COMMERCIAL R32 MW MONOSPLIT MW LIGHT COMMERCIAL **MW MULTISPLIT & DHW** 10 **R32 REFRIGERANT GAS** 11 LINE UP OF MW MONOSPLIT R32 12 **FUNCTIONAL PLUS OF ACTION** 15 **ACTION WALL** 16 **CONSOLE** 17 **LINE UP OF MW LIGHT COMMERCIAL R32** 18 > INDOOR UNITS 25 **LINE UP OF MW MULTISPLIT R32 & DHW** 26 **OUTDOOR UNITS R32** 28 **OUTDOOR UNIT DHW** 30 **TANK** 32 OUTDOOR UNITS 36 **COMBINATIONS**

R32, MORE PERFORMANCE, LESS ENVIRONMENTAL IMPACT

Advantages of R32

Nowadays, environmental protection is considered of primary importance by both users and professionals.

Choosing an air conditioner with the new R32 refrigerant allows you to obtain excellent comfort in both cooling and heating while reducing polluting emissions.

'The most relevant aspect of R32 gas is its GWP value, equal to 675, which allows the creation of systems containing up to 7.4 kg of gas without exceeding the threshold that requires leak control and keeping an equipment register, a threshold that for an R410A gas is already exceeded by 2.4 kg of gas.

R32 refrigerant:

- > it's eco-friendly;
- it is non-toxic;
- it is slightly flammable;
- it is not harmful and does not pose a risk to the ozone layer;
- > it is very efficient.

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Why choose R32

The specific name of R32 gas is difluoromethane. It is currently present among the fluorinated gases with a low GWP value, equal to 675, and used in air conditioning appliances intended for residential use.

There is no obligation to replace the current R410A gas, which therefore remains regularly on the market, except in monosplit applications with refrigerant < 3 kg where, from 2025, the use of gas with GWP < 750 will be mandatory for new installations.

There are some limitations in particular conditions of use that must be considered in accordance with the Regulations in force.

Storage, standards and design

When storing units containing R32, it may be necessary, based on the quantities stored, to review the Fire Prevention Certificate (DPR 151/2011) to ensure the validity of your insurance guarantee. The transport of dangerous goods is regulated by D.GLS 35/2010. R32 has been classified as slightly flammable by ISO 817 and as such has no stringent limitations in road transport (current ADR), maintaining strict regulations in maritime transport (current IMDG) and aeronautical transport (current IATA).

The EN 378:2016 standard also regulates the applications of appliances that use R32 gas; the maximum concentration limits of the gas in residential applications must always be verified with particular attention to multisplit systems that can potentially concentrate (in the event of leaks) high quantities of refrigerant in small spaces. **R32 gas is heavier**



LOWER ENVIRONMENTAL IMPACT



than air and in case of leakage it accumulates at the bottom;

therefore, the indoor units follow different regulatory parameters depending on the type of application.

Installation in public buildings is regulated by specific regulations relating to the application of appliances with flammable gases, such as: hotels DM 09/04/1994, shopping centres DM 27/07/2010, buildings for entertainment DM 19/08/1996, hospitals DM 18/09/2012, schools DM 26/08/1992, offices DM 22/02/2006, children's games DM 16/07/2014, airports DM 07/07/2014, interports DM 18/07/2014.

The design, installation and maintenance of appliances with R32 gas are regulated by the following standards: DM 37/2008, provisions on the installation of systems inside buildings; DGLS 81/2008, text on health and safety at work; F-gas 517/2014, regulation of fluorinated gases; DPR 151/2011, regulation of procedures relating to fire prevention; EN 378:2016, refrigeration systems and heat pumps (requirements for the safety of systems).

With the Ministerial Decree of 10 March 2020 and the subsequent Circular DCPREV 9833 of 22 July 2020 by the Fire Brigade, the

technical provisions are updated to allow the possibility of using, in air conditioning and conditioning systems, machines equipped with refrigerants classified as A1 or A2L, thus overcoming the restriction of using only non-toxic or non-flammable fluids.

However, it is recommended to carefully check the regulations in force when using equipment containing R32 gas. Failure to comply with these regulations makes designers and installers of equipment with R32 assume direct legal responsibility for the application of the equipment itself



MW MONOSPLIT R32, THE RANGE

INDOOR UNITS



kW	2.60	3.50	5.30	7.10
ACTION	MKEGM 267 ZAL MCNGS 267 ZA	MKEGM 357 ZAL MCNGS 357 ZA	MKEGM 537 ZAL MCNGS 537 ZA	MKEGM 717 ZAL MCNGS 717 ZA
CONSOLE	MFIGM 261 ZAL MCJGS 261 ZA	MFIGM 351 ZAL MCJGS 351 ZA	MFIGM 531 ZAL MCJGS 531 ZA	

OUTDOOR UNITS











ACTION

The new Action ensures accurate control of thermal comfort while remaining silent and efficient.

Energy savings

A++

Energy class in cooling (capacities from 2.5 to 6.2 kW)

A+

Energy class in heating (capacities from 2.5 to 6.2 kW)

Operating range

up to

43°C

down to

-15°C

in heating

Maximum silence

21 dB

Excellent silence levels in low mode (capacity 2.5 kW)

Smart Wi-Fi integrated as standard

With Smart Wi-Fi technology you can turn the air conditioner on and off, as well as set the cooling or heating mode, adjust the air flow and check the proper functioning of the system.



Management via EWPE Smart app

FEATURES AND FUNCTIONS

Turbo function

With the turbo function the air flow is very powerful, in a horizontal position towards the ceiling when cold, towards the floor when hot, to quickly reach the desired temperature.



4-way air delivery

The flaps can be adjusted both horizontally and vertically, to maximize comfort.



Self-Clean function

One of the main causes of bad odors is mold and bacteria. The Self-Clean function dries the inside of the air conditioner to prevent their formation by eliminating residual humidity inside the indoor unit. This function works by significantly reducing bad odors and therefore allows you to get cleaner air from the air conditioner.

Cold Plasma Filter

The plasma purification system produces clusters of ions that collide, capture and destroy odors, bacteria, pollen and allergens, in order to reduce the symptoms of allergies and asthma.

I-Feel function

The sensor built into the remote control senses the surrounding temperature and transmits the signal to the indoor unit. This allows the indoor unit to adjust the volume and temperature of the air flow to ensure maximum comfort.



Remote control with "I FEEL", actual temperature 26° C, perceived temperature 26° C.





Quiet Design

This is the mode in which the indoor unit fans work at low speed and the operating sound is reduced to a minimum.

Intelligent pre-heating

The air is brought to temperature before being released into the environment.

Self-diagnosis

The controller detects the error, displays the corresponding code and stops operation.

8°C mode

It never lets the room temperature drop below 8°C, which is very useful to prevent an apartment from deteriorating due to excessive cold during the winter season.

Other functions

Timer, Auto restart, Key lock, LED lights, Turbo cooling, Low voltage start.

Quick defrost

The outdoor unit detects any freezing and activates the rapid defrosting procedure to improve heat dissipation.

Standby

When the unit finishes its operation and is turned off, the consumption is less than or equal to 1 Watt.

7 fan speeds

From super-low to turbo, choose the speed you want.

Soft Start

When power returns after an outage, the units restart gradually to avoid energy overload.



ACTION



4 CAPACITIES 2.50~6.20 kW

ELEGANT & COMPACT DESIGN 185 mm depth for the 2.50 kW model

200 mm depth for the 3.20 kW model

MAXIMUM SILENCE solo 21 dB(A) in Low mode for the 2.50 kW model I-FEEL FUNCTION

SELF-CLEAN FUNCTION

COLD PLASMA FILTER

REMOTE CONTROL INCLUDED







SEER SCOP

2.50 kW 6.60 4.10 3.20 kW 6.50 4.10

4.60 kW 7.20 4.00

6.20 kw 6.80 4.00

MKEGM 267~717 ZAL

Indoor unit model			MKEGM 267 ZAL	MKEGM 357 ZAL MCNGS 357 ZA	MKEGM 537 ZAL MCNGS 537 ZA	MKEGM 717 ZAL		
Outdoor unit model			MCNGS 267 ZA	MCNGS 717 ZA				
Туре			DC-Inverter heat pump					
Control (supplied)				Remote	control			
Nominal data								
Nominal capacity (T=+35°C)		kW	2.50 (0.50~3.25)	3.20 (0.90~3.70)	4.60 (1.00~5.40)	6.20 (1.80~6.90)		
Nominal absorbed power (T=+35°C)	Cooling	kW	0.68 (0.15~1.30)	0.93 (0.22~1.30)	1.35 (0.15~1.90)	1.79 (0.45~2.30)		
Nominal energy efficiency coefficient		EER1	3.68	3.43	3.40	3.47		
Nominal capacity (T=+7°C)		kW	2.80 (0.50~3.70)	3.40 (0.90~4.10)	5.20 (0.75~5.80)	6.50 (1.30~7.91)		
Nominal absorbed power (T=+7°C)	Heating	kW	0.73 (0.14~1.50)	0.87 (0.22~1.50)	1.33 (0.16~1.90)	1.65 (0.45~2.30)		
Nominal energy performance coefficient		COP1	3.84	3.90	3.89	3.95		
Seasonal data								
Theoretical load (Pdesignc)		kW	2.50	3.20	4.60	6.20		
Seasonal energy efficiency index	Caslina	SEER2	6.60	6.50	7.20	6.80		
Seasonal energy efficiency class	Cooling	626/20113	A++	A++	A++	A++		
Annual energy consumption		kWh/v	133	172	224	319		
Theoretical load (Pdesignh) @ -10°C		kW	2.50	2.70	3.70	4.50		
Seasonal energy efficiency index	Heating (average	SCOP2	4.10	4.10	4.00	4.00		
Seasonal energy efficiency class	weather conditions)	626/20113	A+	A+	A+	A+		
Annual energy consumption		kWh/y	854	922	1295	1575		
Electrical data		1	051	722	1233	15.75		
Power supply	Outdoor unit	Ph-V-Hz		1Ph - 220/	240V - 50Hz			
Power cable	Outdoor unit	Type	3 x 1.5 mm ²	3 x 1.5 mm ²	3 x 2.5 mm ²	3 x 2.5 mm ²		
Connection wires between I.U. and O.U.		no.	4	4	4	4		
	Cooling	A A	3.10	4.10	6.20	7.60		
Nominal absorbed current	Heating	A	3.20	3.90	6.10	7.60		
Maximum current	Treating	A	6.00	6.50	8.50	11.50		
		kW	1.50	1.50	1.90	2.30		
Maximum absorbed power		KVV	1.50	1.50	1.90	2.30		
Refrigerant circuit data		T (CM/D)	022 (675)	D22 (675)	D22 (C75)	D22 (C7E)		
Refrigerant ⁴		Type (GWP)	R32 (675)	R32 (675)	R32 (675)	R32 (675)		
Q.ty of refrigerant pre-charge		Kg	0.48	0.59	0.8	1.2		
Tons of CO2 equivalent		t	0.324	0.398	0.520	0.817		
Liquid/gas refrigerant pipe diameter		mm (inches)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 12.74(1/2)		
Max split length		m	15	20	25	25		
Max difference in height U.I./O.U.		m	10	10	10	10		
Split length without additional charge		m	5	5	5	5		
Additional charge		g/m	16	16	16	40		
Indoor unit specifications								
Dimensions	LxDxH	mm	708x185x260	835x200x275	943x246x333	943x246x333		
Net weight		Kg	7	9	13	13.5		
Sound power level	Hi~Lo	dB(A)	55/48/46/44/40/37/33	59/50/47/45/41/38/35	60/58/56/54/48/44/41	65/56/54/52/50/46/42		
Sound pressure level	Hi~Lo	dB(A)	38/36/34/32/28/25/21	42/38/35/33/29/26/23	47/45/43/41/35/30/28	50/46/44/42/40/36/32		
Volume of air treated	Hi~Lo	m³/h	500/470/430/390/320/270/250	650/550/470/420/380/350/310	1000/960/870/810/720/640/600	1050/900/740/690/640/590/54		
Outdoor unit specifications								
Dimensions	LxDxH	mm	732x330x555	732x330x555	732x330x555	873x376x555		
Net weight		Kg	24.5	25	27.5	36.5		
Sound power level		dB(A)	60	63	65	69		
Sound pressure level		dB(A)	50	52	55	59		
Volume of air treated	Max	m³/h	1950	1950	2100	2800		
Operating limits (outdoor temperature)	Cooling Heating	- °C		-15	~43 ~24			
Optional parts	rieating			-13	~24			
				L. J.	udad			
Wi-Fi module					uded			
Individual wired control				M-KF-C	W2-L-G			
Wired control for centralized control				11.05 /	W3-L-G			

1. Value measured according to the harmonised standard EN14511.2. EU Regulation No. 206/2012 -- Value measured according to the harmonised standard EN14825.3. EU Delegated Regulation No. 626/2011 on the new energy consumption labelling of air conditioners. 4. 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. Therefore, if I kg of this refrigerant were released into the atmosphere, the impact on global warming would be 675 times higher 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.





CONSOLE



2.70~5.20 kW

7 FAN SPEED levels

TOTAL TEMPERATURE CONTROL

The *I feel* function detects the room temperature in the remote control position

ELEGANT & COMPACT DESIGN

215 mm depth

DOUBLE AIR DELIVERY

X-FAN allows you to dry the evaporator to prevent the formation of mold and bacteria

COLD PLASMA purification system

Wi-Fi INTEGRATED

8° HEATING

prevents the room temperature from falling below 8°C

REMOTE CONTROLLER INCLUDED







in heating

SEER SCOP 2.70 kw 7.80 4.20

52 kw 7.20 4.10

5.20 kw 7.20 4.00

MFIGM 261~531 ZAL

Indoor unit model			MFIGM 261 ZAL	MFIGM 351 ZAL	MFIGM 531 ZAL
Outdoor unit model			MCJGS 261 ZA	MCJGS 351 ZA	MCJGS 531 ZA
Туре				DC-Inverter heat pump	
Control (supplied)				Remote control	
Nominal data					
Nominal capacity (T=+35°C)		kW	2.70 (0.50~3.40)	3.52 (0.80~4.40)	5.20 (1.20~6.20)
Nominal absorbed power (T=+35°C)	Cooling	kW	0.70 (0.15~1.10)	0.93 (0.23~1.55)	1.45 (0.10~2.25)
Nominal energy efficiency coefficient		EER1	3.86	3.80	3.60
Nominal capacity (T=+7°C)		kW	2.90 (0.60~3.65)	3.80 (1.05~4.40)	5.33 (1.10~6.20)
Nominal absorbed power (T=+7°C)	Heating	kW	0.73 (0.16~1.20)	0.96 (0.18~1.70)	1.55 (0.20~2.40)
Nominal energy performance coefficient		COP1	3.97	3.96	3.45
Seasonal data					
Theoretical load (Pdesignc)		kW	2.70	3.50	5.20
Seasonal energy efficiency index	C 1:	SEER2	7.80	7.20	7.20
Seasonal energy efficiency class	Cooling	626/20113	A++	A++	A++
Annual energy consumption		kWh/y	121	170	253
Theoretical load (Pdesignh) @ -10°C		kW	2.60	3.20	4.80
Seasonal energy efficiency index	Heating (average	SCOP2	4.20	4.10	4.00
Seasonal energy efficiency class	weather conditions)	626/20113	A+	A+	A+
Annual energy consumption		kWh/y	867	1093	1680
Electrical data		., .,		1	
Power supply	Outdoor unit	Ph-V-Hz		1Ph - 220/240V - 50Hz	
Power cable	outdoor unit	Type	3 x 1.5 mm ²	3 x 1.5 mm ²	3 x 2.5 mm ²
Connection wires between I.U. and O.U.		no.	4	4	4
	Cooling	A	3.50	4.60	6.60
Nominal absorbed current	Heating	A	3.50	4.60	7.10
Maximum current	1	A	6.00	7.50	11.50
Maximum absorbed power		kW	1.20	1.70	2.40
Refrigerant circuit data					
Refrigerant ⁴		Type (GWP)	R32 (675)	R32 (675)	R32 (675)
Q.ty of refrigerant pre-charge		Kg	0.51	0.75	1.00
Tons of CO2 equivalent		t	0.344	0.506	0.675
Liquid/gas refrigerant pipe diameter		mm (inches)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 12.74(1/2)
Max split length		m	15	20	25
Max difference in height U.I./O.U.		m	10	10	10
Split length without additional charge		m	5	5	5
Additional charge		g/m	16	16	16
Indoor unit specifications		y,			
Dimensions	LxDxH	mm	700x215x600	700x215x600	700x215x600
Net weight	,	Kg	15.5	16	16
Sound power level	Hi~Lo	dB(A)	52/48/46/44/41/38/35	55/51/49/47/44/40/36	60/58/56/53/51/48/43
Sound pressure level	Hi~Lo	dB(A)	39/36/34/32/29/26/23	44/40/38/36/33/29/25	49/47/45/42/40/37/32
Volume of air treated	Hi~Lo	m³/h	500/430/410/370/330/280/250	600/520/480/440/400/360/280	750/670/600/520/470/430/350
Outdoor unit specifications					
Dimensions	LxDxH	mm	732x330x555	802x350x555	958x402x660
Net weight	,	Kg	24	27.5	41
Sound power level		dB(A)	61	63	65
Sound pressure level		dB(A)	51	53	59
Volume of air treated	Max	m³/h	1950	2200	3600
Operating limits (outdoor temperature)	Cooling Heating	- %		-15~43 -22~24	
Optional parts	Treating			LL L1	
Wi-Fi module				Included	
Individual wired control				M-RF-CW2-L-G	
Wired control for centralized control				M-RF-CW3-L-G	
	antrol)				
Centralized control (only possible with wired co	טוונוטו <i>)</i>			M-V-CC-T255-G	

1.Value measured according to the harmonised standard BN14511.2 EU Regulation No. 206/2012 — Value measured according to the harmonised standard BN1482S.3 EU Delegated Regulation No. 626/2011 on the new energy consumption labeling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a labeling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere refrigerants with a labeling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user attempt to intervene on the refrigerant control of desagranties the product. In case of these daylogs contact cupled postsories.



MW LIGHT COMMERCIAL R32, THE RANGE

1-PHASE INDOOR UNITS

		kW	3.50	5.30	7.10
	- 46				
8-WAY COMPACT CASSETTE		Wi-Fi	MTFGS 351 ZA MCKGS 351 ZA		
	-				
8-WAY BIG CASSETTE		Wi-Fi		MTBGS 531 ZA MCKGS 531 ZA	MTBGS 711 ZA MCKGS 711 ZA
DUCTED	1-	○ Wi-Fi	MUDGS 351 ZA MCKGS 351 ZA	MUDGS 531 ZA MCKGS 531 ZA	MVDGS 711 ZA MCKGS 711 ZA
FLOOR/CEILING		Wi-Fi	MSFGS 351 ZA MCKGS 351 ZA	MSFGS 531 ZA MCKGS 531 ZA	MSFGS 711 ZA MCKGS 711 ZA

UNITÀ ESTERNE



3-PHASE INDOOR UNITS

	kW	10.00	14.00	16.00
	-			
8-WAY BIG CASSETTE	₩.Fi	MTBIS 1082 ZA MCSIS 1082 ZA	MTBIS 1402 ZA MCSIS 1402 ZA	MTBIS 1602 ZA MCSIS 1602 ZA
DUCTED	Wi-Fi	MUCIS 1082 ZA MCSIS 1082 ZA	MUCIS 1402 ZA MCSIS 1402 ZA	MUCIS 1602 ZA MCSIS 1602 ZA
FLOOR/CEILING	WI-Fi	MSFIS 1082 ZA MCSIS 1082 ZA	MSFIS 1402 ZA MCSIS 1402 ZA	MSFIS 1402 ZA MCSIS 1402 ZA

OUTDOOR UNITS







8-WAY COMPACT CASSETTE 60x60



1 CAPACITY

3.50 kW

260 mm height for

recessed installation in false ceilings

MEMORY FUNCTION

WASHABLE FILTER air quality optimization

360° AIR DISTRIBUTION

MTFGS 351 ZA

DOWN TO -20°C

optional with wired control

UP TO 52°C In cooling

CONDENSATE DRAIN PUMP INCLUDED maximum height difference **1000 mm** from panel edge

CONTROLS

standard remote control

SEER

SCOP

3.50 kw 7.10 4.20

Indoor unit model			MTFGS 351 ZA
Outdoor unit model			MCKGS 351 ZA
Туре			DC-Inverter heat pump
Control (supplied)			Remote control
Nominal data		<u> </u>	TETROCE CONTROL
Nominal capacity (T=+35°C)		kW	3.50
Nominal absorbed power (T=+35°C)	Cooling	kW	0.92
Nominal energy efficiency coefficient	Cooling	EER1	3.80
Nominal capacity (T=+7°C)		kW	4.00
Nominal absorbed power (T=+7°C)	Heating	kW	1.00
Nominal energy performance coefficient	ricating	COP1	4.00
seasonal data		COFT	4.00
heoretical load (Pdesignc)		kW	3.50
Seasonal energy efficiency index		SEER2	7.10
	Cooling		
easonal energy efficiency class		626/20113	A++
Annual energy consumption		kWh/y	173
heoretical load (Pdesignh) @ -10°C	Heating	kW	3.10
easonal energy efficiency index	(average weather	SCOP2	4.20
easonal energy efficiency class	conditions)	626/20113	A+
Annual energy consumption		kWh/y	1033
lectrical data			
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50/60HZ
Power cable		Туре	3 x 1.5 mm ²
Connection wires between I.U. and O.U.		no.	4
Nominal absorbed current	Cooling	A	4.40
AOTHINGI ADSOLDEG CALLEUR	Heating	A	4.80
Maximum current		A	6.00
Maximum absorbed power		kW	1.30
Refrigerant circuit data			
Refrigerant4		Type (GWP)	R32 (675)
).ty of refrigerant pre-charge		Kg	0.57
Tons of CO2 equivalent		t	0.385
Liquid/gas refrigerant pipe diameter		mm (inches)	6.35(1/4) / 9.52(3/8)
Max split length		m m	30
Max difference in height U.I./O.U.		m	15
Split length without additional charge		m	5
Additional charge		g/m	
ndoor unit specifications		y/III	10
	LxDxH	mm	E70vE70v060
Dimensions Viet weight	LXVXП	mm Ka	570x570x260
Net weight	SHi	Kg dB(A)	16.5 47
Sound power level			
Sound pressure level	SHi/Hi/Mi/Lo	dB(A)	36/35/33/29
/olume of air treated	SHi/Hi/Mi/Lo	m³/h	600/550/500/400
Outdoor unit specifications	1.0.11		(75.205.552
Dimensions	LxDxH	mm	675x285x553
Net weight	1	Kg	24.5
ound power level	Max	dB(A)	56
Sound pressure level	Max	dB(A)	48
/olume of air treated	Max	m³/h	1800
Ingrating limits (outdoor temporature)	Cooling	-\	-20~52
Operating limits (outdoor temperature)	Heating		-20~24
Accessories			
Decorative panel			MTFPG 350 ZA
Dimensions	LxDxH	mm	620x620x47.5
Net weight	· ·	Kg	3
Optional parts			
Wired control with Wi-Fi module integrated			DMW-ZA1 WiFi
nterface for connection to centralized control			DMC-LCAC-Gateway

1. Value measured according to the harmonized standard EN1451. 2. EU Regulation No. 206/2012 - - Value measured according to the harmonized standard EN14825. 3. EU Delegated Regulation No. 626/2011 on the new labelling indicating the energy consumption of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerant with a GWP of 675. Therefore, if 1 kg of this refrigerant were released into the atmosphere, the impact on global warming would be 675 times higher 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. If necessary, always contact qualified personnel, 5. DMC-LCAC-Gateway interface required.



8-WAY BIG CASSETTE 84x84



2 CAPACITIES

360° AIR DISTRIBUTION

5.30~7.10 kW

MEMORY FUNCTION

200 mm height for recessed installation in false ceilings

COMPACT DESIGN

DOWN TO -20°C

INCLUDED maximum height difference 1000 mm from panel edge

CONDENSATE DRAIN PUMP MAXIMUM SPLITTING LENGTH 75 m

CONTROLS

standard remote control



5.30 kw 7.20 4.30 7.10 kw 6.70 4.30

Indoor unit model			MTBGS 531 ZA	MTBGS 711 ZA
Outdoor unit model			MCKGS 531 ZA	MCKGS 711 ZA
Гуре			DC-Inverter	
Control (supplied)			Remote	
Nominal data				
Nominal capacity (T=+35°C)		kW	5.30	7.10
Nominal absorbed power (T=+35°C)	Cooling	kW	1.54	2.03
Nominal energy efficiency coefficient		EER1	3.45	3.50
Nominal capacity (T=+7°C)		kW	5.80	8.00
Nominal absorbed power (T=+7°C)	Heating	kW	1.47	2.00
Nominal energy performance coefficient	reading	COP1	3.95	4.00
Seasonal data				
Theoretical load (Pdesignc)		kW	5.30	7.10
Seasonal energy efficiency index		SEER2	7.20	6.70
Seasonal energy efficiency class	Cooling	626/20113	A++	A++
Annual energy consumption		kWh/y	258	371
Theoretical load (Pdesignh) @ -10°C		kW	3.90	5.00
Seasonal energy efficiency index	Heating (average	SCOP2	4.30	4.30
Seasonal energy efficiency class	weather conditions)	626/20113	4.50 A+	A+
Annual energy consumption	wedner conditions)	kWh/y	1270	1628
Electrical data		KVVII/ y	1210	1020
Power supply	Outdoor unit	Ph-V-Hz	1-220~24	NV-50H7
Power supply Power cable	Outuooi Ullit	Туре	3 x 2.5 mm ²	3 x 4 mm ²
Connection wires between I.U. and O.U.		no.	3 X 2.3 IIIII ²	3 X 4 IIIII ² 4
	Cooling	A A	7.30	9.70
Nominal absorbed current		A	7.30	9.60
Maximum current	Heating	A	9.50	9.00 14.00
		kW	1.90	2.80
Maximum absorbed power		KVV	1.90	2.80
Refrigerant circuit data		Tune (CMD)	R32 (675)	D22 (C7E)
Refrigerant4 Q.ty of refrigerant pre-charge		Type (GWP)		R32 (675) 1.5
Cons of CO2 equivalent		Kg	0.85 0.574	1.013
TOILS OF COZ equivalent		t (in sheet)		
Liquid/gas refrigerant pipe diameter		mm (inches)	6.35(1/4) / 12.74(1/2)	9.52(3/8) / 15.88(5/8)
Max split length		m	30	30
Max difference in height U.I./O.U.		m	20	20
Split length without additional charge		m	5	5
Additional charge		g/m	16	20
Indoor unit specifications	1.011		040 040 200	040 040 200
Dimensions	LxDxH	mm	840x840x200	840x840x200
Net weight	CII:	Kg	21	21
Sound power level	SHi	dB(A)	51	51
Sound pressure level	SHi/Hi/Mi/Lo	dB(A)	36/35/33/31	39/38/36/34
Volume of air treated	SHi/Hi/Mi/Lo	m³/h	900/800/700/600	1100/1000/900/800
Outdoor unit specifications	1.0.11	T	745.200.555	000 340 660
Dimensions	LxDxH	mm	745x300x555	889x340x660
Net weight	1.4	Kg	30.5	41.5
Sound power level	Max	dB(A)	65	69
Sound pressure level	Max	dB(A)	52	55
Volume of air treated	Max	m³/h	2200	3600
Operating limits (outdoor temperature)	Cooling Heating	°C	-20~ -20~	
Accessories	· · · · · · · · · · · · · · · · · · ·			
Decorative panel			MTBPG :	710 ZA
Dimensions	LxDxH	mm	950x950x52	950x950x52
Net weight	·	Kg	6	6
Optional parts		. ,	-	
			DMW-ZA	A1 WiFi
Wired control with Wi-Fi module integrated Interface for connection to centralized control			DMW-Z/ DMC-LCAC	

1. Value measured according to the harmonized standard EN1451, 2. EU Regulation No. 206/2012 - Value measured according to the harmonized standard EN14825. 3. EU Delegated Regulation No. 626/2011 on the new labelling indicating the energy consumption of air conditioners. A Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerant 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. Therefore, if 1 kg of this efficient were released into the atmosphere, the impact on global warming would be 675 times higher 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. If necessary, always contact qualified personnel, 5. DMG-LCAG-Gateway interface required.



8-WAY BIG CASSETTE 84x84



3 CAPACITIES 10.01~15.24 kW

-15~50°C in cooling

-20~24°C in heating

8-WAY PANEL, HOMOGENEOUS AND 360° AIR DELIVERY

PREPARATION FOR EXTERNAL AIR INLET

CONDENSATE DRAIN
PUMP INCLUDED, with
the possibility of raising th

the possibility of raising the exhaust up to **750 mm** from the lower level

AUTO-RESTART

CONTROLS

standard remote control







Wi-Fi optional

SEER SCOP 10,01 kW 6,30 4,00

11,72 kw 6,10 4,00

15,24 kW 6,10 4,00

Type	1602 ZA
Type	
Control (supplied) Remote control	
Nominal data Nominal clapet (1=+575)	
Norminal apacetry (1=+35°C) Norminal apacetry (1=+35°C) Cooling WW 3.04 (0.89-4.15) 3.62 (0.81-6.35) 5.70 (1.15 (0.01	
Nominal absorbed power (1=-35°C) Cooling KW 3.04 (0.89-4.15) 3.62 (0.81-6.35) 5.70 (1.16)	10~16.12)
Nominal energy efficiency (order) Nominal apacity (1=+7°C) Heating Nominal apacity (1=+7°C) Nominal apacity (1=+7°C) Heating Nominal apacity (1=+7°C) Nominal apacity (1=+7°C)	0~6.25)
Nominal apacity (T=+7°C) Heating W 11.14 (2.78-12.66) 14.07 (4.10-17.29) 18.17 (4	67
Nominal absorbed power (I = +7°C) Heating W 3.00 (0.78 - 4.00) 3.75 (0.91 - 5.90) 5.70 (1.16 Nominal energy performance coefficient Seasonal data	
Nominal energy performance coefficient COP 3.71 3.75 3.25 3.25	
Theoretical load (Pdesignc) Seasonal energy efficiency index SEER SEER	19
Theoretical load (Pdesignc) Seasonal energy efficiency index SEER SEER	
Seasonal energy efficiency index Cooling SEER 6.30 6.10 6.60	.30
Cooling A Cooling Cooling	10
Annual energy consumption KWh/y 556 671 88 1 1 1 1 1 1 1 1	++
Theoretical load (Pdesignh) @ -10°C Seasonal energy efficiency index Seasonal energy efficiency index Seasonal energy efficiency index Scope Scope	78
Seasonal energy efficiency index Heating (average yeasonal energy efficiency class weather conditions) Seasonal energy efficiency class weather conditions) Edectrical data A+	.80
Seasonal energy efficiency class weather conditions 626/20113 A+ A+ A+ A+ A-Annual energy consumption Electrical data	00
Annual energy consumption kWh/y 2870 3920 41	+
Page	30
Power supply	
Prover cable Type S x 2.5 mm² S x 4 mm² S x 4 connection wires between I.U. and O.U. no. 4 4 4 4 4 4 4 4 4	
Coninction wires between I.U. and O.U.	mm ²
Nominal absorbed current	4
Heating A 5.00 (1.30~6.40) 5.70 (1.90~9.60) 8.80 (2.1 Maximum current A 10.00 14.00 14.00 14.00 Maximum absorbed power kW 5.00 7.30 7.30 7.5 Refrigerant circuit data Refrigerant treated type (GWP) R32 (675)	·
Maximum current A 10.00 14.00 14 Maximum absorbed power kW 5.00 7.30 7. Refrigerant circuit data Refrigerant fre-charge type (GWP) R32 (675) R32 (675) R32 Q, ty of refrigerant pre-charge Kg 2.4 2.9 3 Tons of CO2 equivalent t 1.620 1.958 2.2 Longuid/gas refrigerant pipe diameter mm (inches) 9.52(3/8") / 15.88(5/8") 9.52(3/8") / 15.88(5/8") Max split length m 75 75 7 Max difference in height U.I./O.U. m 30 30 3 Split length without additional charge m 5 5 5 Additional charge g/m 24 24 24 2 Indoor unit specifications 10mensions LxDxH mm 830x830x245 830x830x287 830x8 Net weight Kg 27.2 29.3 29 Sound power level Hi d8(A) 63 <t< td=""><td></td></t<>	
Maximum absorbed power MW 5.00 7.30 7.86 7.86 7.86 7.30 7.86 7.86 7.30 7.86 7.86 7.30 7.86 7.86 7.30 7.86 7.30 7.86 7.30 7.86 7.30 7.86 7.30 7.86 7.30 7.86 7.30 7.86 7.30 7.86 7.30 7.86 7.30 7.86 7.30 7.30 7.86 7.30	.00
Refrigerant circuit data Refrigerant4 type (GWP) R32 (675) R32 (675) R32 Q.ty of refrigerant pre-charge Kg 2.4 2.9 3 Tons of CO2 equivalent t 1,620 1,958 2.7 Liquid/gas refrigerant pipe diameter mm (inches) 9,52(3/8") / 15,88(5/8") Max split length m 75 75 7 Max difference in height U.I./O.U. m 30 30 3 Split length without additional charge m 5 5 Additional charge g/m 24 24 24 Indoor unit specifications 1 830x830x245 830x830x287 830x8 Dimensions LxDxH mm 830x830x245 830x830x287 830x8 Sound power level Hi dB(A) 63 66 6 Sound power level Hi/Mi/Lo/Silent dB(A) 51/49/46/39 51/5/49/46/5/38.5 53/50.5 Volume of air treated Hi/Mi/Lo m3/h 1700/1530/1300 1900/1	50
Refrigerant4 type (GWP) R32 (675) R32 (675) R32 Q.ty of refrigerant pre-charge Kg 2.4 2.9 3 Tons of CO2 equivalent t 1.620 1.958 2. Liquid/gas refrigerant pipe diameter mm (inches) 9.52(3/8") / 15.88(5/8") Max split length m 75 75 7 Max difference in height U.I./O.U. m 30 30 3 Split length without additional charge m 5 5 4 Additional charge g/m 24 24 24 2 Indoor unit specifications IxDxH mm 830x830x245 830x830x287 830x8 Sound power level Hi dB(A) 63 66 6 6 Sound power level Hi/Mi/Lo/Silent dB(A) 51/49/46/39 51.5/49/46.5/38.5 53/50.5 53/50.5 Volume of air treated Hi/Mi/Lo m3/h 1700/1530/1300 1900/1750/1600 2000/18	30
Q.ty of refrigerant pre-charge Kg 2.4 2.9 3 Tons of CO2 equivalent t 1.620 1.958 2.7 Liquid/gas refrigerant pipe diameter mm (inches) 9.52(3/8") / 15.88(5/8") Max split length m 75 75 77 Max difference in height UL/O.U. m 30 30 33 Split length without additional charge m 5 5 Additional charge g/m 24 24 24 Indoor unit specifications IxDxH mm 830x830x245 830x830x287 830x8 Net weight Kg 27.2 29.3 29.3 29.3 Sound power level Hi dB(A) 63 66 6 6 Sound pressure level Hi/Mi/Lo/Silent dB(A) 51/49/46/39 51/5/49/46/5/38.5 53/50.5 Volume of air treated Hi/Mi/Lo m3/h 1700/1530/1300 1900/1750/1600 2000/18	(675)
Tons of CO2 equivalent t 1.620 1.958 2.: Liquid/gas refrigerant pipe diameter mm (inches) 9.52(3/8") / 15.88(5/8") Max split length m 75 75 75 75 Max difference in height U.I./O.U. m 30 30 30 30 Split length without additional charge m 5 5 Additional charge g/m 24 24 24 2 Indoor unit specifications Dimensions LxDxH mm 830x830x245 830x830x287 830x8 Net weight Kg 27.2 29.3 22 Sound power level Hi db(A) 63 66 6 Sound pressure level Hi/Mi/Lo/Silent dB(A) 51/49/46/39 51.5/49/46.5/38.5 53/50.5 Volume of air treated Hi/Mi/Lo m³/h 1700/1530/1300 1900/1750/1600 2000/18	.2
Liquid/gas refrigerant pipe diameter mm (inches) 9.52(3/8") / 15.88(5/8") Max split length m 75 75 75 Max difference in height U.I./O.U. m 30 30 3 Split length without additional charge m 5 5 Additional charge g/m 24 24 2 Indoor unit specifications Dimensions LxDxH mm 830x830x245 830x830x287 830x8 Net weight Kg 27.2 29.3 25 Sound power level Hi dB(A) 63 66 6 Sound pressure level Hi/Mi/Lo/Silent dB(A) 51/49/46/39 51.5/49/46.5/38.5 53/50.5 Volume of air treated Hi/Mi/Lo m3/h 1700/1530/1300 1900/1750/1600 2000/18	
Max split length m 75 75 75 Max difference in height U.I./O.U. m 30 30 3 Split length without additional charge m 5 5 Additional charge g/m 24 24 2 Indoor unit specifications LxDxH mm 830x830x245 830x830x287 830x8 Net weight Kg 27.2 29.3 29. Sound power level Hi dB(A) 63 66 6 Sound pressure level Hi/Mi/Lo/Silent dB(A) 51/49/46/39 51.5/49/46.5/38.5 53/50.5 Volume of air treated Hi/Mi/Lo m3/h 1700/1530/1300 1900/1750/1600 2000/18	00
Max difference in height U.I./O.U. m 30 30 33 Split length without additional charge m 5 5 5 Additional charge g/m 24 24 24 2 Indoor unit specifications but	'5
Split length without additional charge m 5 5 Additional charge g/m 24 24 24 Indoor unit specifications Uimensions LxDxH mm 830x830x245 830x830x287 830x8 Net weight Kg 27.2 29.3 29.3 29.3 29.3 29.3 29.3 66 66 66 66 66 66 66 66 66 66 67 60	10
Additional charge g/m 24 24 24 Indoor unit specifications Impressions LxDxH mm 830x830x245 830x830x287 830x830x287 Net weight Kg 27.2 29.3 29 Sound power level Hi dB(A) 63 66 6 6 Sound pressure level Hi/Mi/Lo/Silent dB(A) 51/49/46/39 51.5/49/46.5/38.5 53/50.5 Volume of air treated Hi/Mi/Lo m³/h 1700/1530/1300 1900/1750/1600 2000/18	5
Indoor unit specifications Dimensions LxDxH mm 830x830x245 830x830x287 830x8 Net weight Kg 27.2 29.3 29.3 Sound power level Hi dB(A) 63 66 66 Sound pressure level Hi/Mi/Lo/Silent dB(A) 51/49/46/39 51.5/49/46.5/38.5 53/50.5 Volume of air treated Hi/Mi/Lo m³/h 1700/1530/1300 1900/1750/1600 2000/18	24
Dimensions LxDxH mm 830x830x245 830x830x287 830x8 Net weight Kg 27.2 29.3 29.3 Sound power level Hi dB(A) 63 66 66 Sound pressure level Hi/Mi/Lo/Silent dB(A) 51/49/46/39 51.5/49/46.5/38.5 53/50.5 Volume of air treated Hi/Mi/Lo m³/h 1700/1530/1300 1900/1750/1600 2000/18	1
Net weight Kg 27.2 29.3 29.5 Sound power level Hi dB(A) 63 66 6 Sound pressure level Hi/Mi/Lo/Silent dB(A) 51/49/46/39 51.5/49/46.5/38.5 53/50.5 Volume of air treated Hi/Mi/Lo m³/h 1700/1530/1300 1900/1750/1600 2000/18	30v287
Sound power level Hi dB(A) 63 66 6 Sound pressure level Hi/Mi/Lo/Silent dB(A) 51/49/46/39 51.5/49/46.5/38.5 53/50.5 Volume of air treated Hi/Mi/Lo m³/h 1700/1530/1300 1900/1750/1600 2000/18	9.3
Sound pressure level Hi/Mi/Lo/Silent dB(A) 51/49/46/39 51.5/49/46.5/38.5 53/50.5 Volume of air treated Hi/Mi/Lo m³/h 1700/1530/1300 1900/1750/1600 2000/18	5.5 56
Volume of air treated Hi/Mi/Lo m³/h 1700/1530/1300 1900/1750/1600 2000/18	
Diameter of the condensate drain pipe mm ø25 ø25 ø	25
Ordineter of the condensate drain pipe 111111 025 025 0	
	15x975
	1000/0
	7 <u>2</u> 75
	i6
	500
Cooling	UU
Heating -20~24	
Accessories ATTRI 1003 74	
Decorative panel MTBPI 1082 ZA)FO .FF
	950x55
······································	6
Optional parts	
Wired control with Wi-Fi module integrated DMW-WIFI-ZA	

1. Value measured according to the harmonised standard EN14511. 2. EU Regulation No. 206/2012 -- Value measured according to the harmonised standard EN14825. 3. EU Delegated Regulation No. 626/2011 on the new energy consumption labelling of air conditioners. 4. 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. Therefore, if 1 kg of this refrigerant were released into the atmosphere, the impact on global warming would be 675 times higher 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.





3 CAPACITIES

3.50~7.10 kW

WASHABLE FILTER

air quality optimization

MEMORY FUNCTION



DUCTED

MAXIMUM SPLITTING LENGTH 30 m COMPATIBLE WITH SYSTEMS

STATIC PRESSURE LEVEL adjustable up to 160 Pa

(mod. 7.10 kW)



AIRZONE

DOWN TO -20°C

CONTROLS

wired control included



SEER

SCOP 3.50 kw 6.50

5.30 kw 6.30

5.30 kW models

MUDGS 351~531 ZA

CONDENSATE DRAIN PUMP

difference 1000 mm from lower

INCLUDED maximum height

MAXIMUM COMPACTNESS

only 200 mm high for the 3.50 and

profile

MVDGS 711 ZA

					7.10 kW 6.60
Indoor unit model			MUDGS 351 ZA	MUDGS 531 ZA	MVDGS 711 ZA
Outdoor unit model			MCKGS 351 ZA	MCKGS 531 ZA	MCKGS 711 ZA
Туре				DC-Inverter heat pump	
Control (supplied)				Wired control	
Nominal data					
Nominal capacity (T=+35°C)		kW	3.50	5.30	7.10
Nominal absorbed power (T=+35°C)	Cooling	kW	1.03	1.51	1.92
Nominal energy efficiency coefficient		EER1	3.40	3.50	3.70
Nominal capacity (T=+7°C)		kW	4.00	5.60	8.00
Nominal absorbed power (T=+7°C)	Heating	kW	1.00	1.42	2.00
Nominal energy performance coefficient		COP1	4.00	3.95	4.00
Seasonal data					
heoretical load (Pdesignc)		kW	3.50	5.30	7.10
Seasonal energy efficiency index	Coolina	SEER2	6.50	6.30	6.60
Seasonal energy efficiency class	Cooling	626/20113	A++	A++	A++
Annual energy consumption		kWh/y	188	294	377
heoretical load (Pdesignh) @ -10°C		kW	3.00	3.90	4.70
Seasonal energy efficiency index	Heating (average	SCOP2	4.00	4.00	4.10
Seasonal energy efficiency class	weather conditions)	626/20113	A+	A+	A+
Annual energy consumption		kWh/y	1050	1365	1605
Electrical data					
Power supply	Outdoor unit	Ph-V-Hz		1-220~240V-50/60HZ	
Power cable		Туре	3 x 1.5 mm ²	3 x 2.5 mm ²	3 x 4 mm ²
Connection wires between I.U. and O.U.		no.	4	4	4
Nominal absorbed current	Cooling	A	4.90	7.20	9.20
	Heating	A	4.80	6.80	9.60
Maximum current		A	6.00	9.50	14.00
Maximum absorbed power		kW	1.30	1.90	2.80
Refrigerant circuit data					
Refrigerant4		Type (GWP)	R32 (675)	R32 (675)	R32 (675)
).ty of refrigerant pre-charge		Kg	0.57	0.85	1.5
Tons of CO2 equivalent		t	0.385	0.574	1.013
iquid/gas refrigerant pipe diameter		mm (inches)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 12.74(1/2)	9.52(3/8) / 15.88(5/8)
Max split length		m	30	30	30
Max difference in height U.I./O.U.		m	15	20	20
Split length without additional charge		m	5	5	5
Additional charge		g/m	16	16	20
ndoor unit specifications	1.0.11		700 450	4000 (0,
Dimensions	LxDxH	mm	700x450x200	1000x450x200	900x655x260
Net weight	CIII	Kg	18	24	29.5
Sound power level	SHi	dB(A)	56	59	58
Sound pressure level	SHi/Hi/Mi/Lo	dB(A)	35/33/32/30	36/35/33/31	37/35/33/31
Volume of air treated	SHi/Hi/Mi/Lo	m³/h	600/550/500/400	900/800/700/600	1100/1000/900/800
an's static pressure	Std/Max	Pa	25/80	25/80	25/160
Outdoor unit specifications	1.0.11		(75, 205, 552	745,200,555	000 240 660
Dimensions	LxDxH	mm	675x285x553	745x300x555	889x340x660
let weight	Mari	Kg	24.5	30.5	41.5
Sound power level	Max	dB(A)	56	65	69
ound pressure level	Max	dB(A)	48	52	55
/olume of air treated	Max	m³/h	1800	2200	3600
Operating limits (outdoor temperature)	Cooling Heating	- °C		-20~52 -20~24	
Optional parts	ricating			-ZU*-Z*	
Wired control with Wi-Fi module integrated				DMW-ZA1 WiFi	
nterface for connection to centralized control				DMC-LCAC-Gateway	
Centralized control ⁵				M-V-CC-T255-G	

1. Value measured according to the harmonized standard EN1451. 2. EU Regulation No. 206/2012 -- Value measured according to the harmonized standard EN14825. 3. EU Delegated Regulation No. 626/2011 on the new labelling indicating the energy consumption of air conditioners. 4. 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. Therefore, if 1 kg of flost contains a refrigerant were released into the atmosphere, the impact on global warming would be 675 times higher 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. If necessary, always contact qualified personnel. 5. DMC-LCAC-Gateway interface required.



DUCTED

3 CAPACITIES

9.20~15.24 kW

-15~50°C in cooling -20~24°C in heating

CONDENSATE DRAIN PUMP INCLUDED

DOUBLE INSTALLATION POSSIBILITY:

ceiling or wall recessed

AUTO-RESTART

WEEKLY TIMER

CONTROLS

wired control included









SEER SCOP 9.20 kw 6.10 4.00

12.40 kW 6.10 4.00

15.24 kW 6.10 4.00

MUCIS 1082~1602 ZA

Indoor unit model			MUCIS 1082 ZA	MUCIS 1402 ZA	MUCIS 1602 ZA
Outdoor unit model			MCSIS 1082 ZA	MCSIS 1402 ZA	MCSIS 1602 ZA
Туре				DC-Inverter heat pump	
Control (supplied)				Wired control	
Nominal data					
Nominal capacity (T=+35°C)		kW	9.20 (2.73~11.73)	12.40 (3.52~15.83)	15.24 (4.10~17.29)
Nominal absorbed power (T=+35°C)	Cooling	kW	2.83 (0.89~4.20)	3.83 (0.81~6.45)	5.25 (1.03~6.65)
Nominal energy efficiency coefficient		EER1	3.25	3.24	2.90
Nominal capacity (T=+7°C)		kW	10.10 (2.78~12.84)	15.24 (4.11~17.59)	17.58 (4.40~20.52)
Nominal absorbed power (T=+7°C)	Heating	kW	2.71 (0.78~4.00)	4.10 (0.95~5.80)	4.74 (0.95~6.60)
Nominal energy performance coefficient		COP1	3.75	3.72	3.71
Seasonal data	'				
Theoretical load (Pdesignc)		kW	9.20	12.40	15.30
Seasonal energy efficiency index	6 1:	SEER2	6.10	6.10	6.10
Seasonal energy efficiency class	Cooling	626/20113	A++	A++	A++
Annual energy consumption		kWh/y	528	711	878
Theoretical load (Pdesignh) @ -10°C		kW	8.80	11.50	12.50
Seasonal energy efficiency index	Heating (average	SCOP2	4.00	4.00	4.00
Seasonal energy efficiency class	weather conditions)	626/20113	A+	A+	A+
Annual energy consumption		kWh/y	3080	4025	4375
Electrical data		,,	3000	1025	.5,5
Power supply	Outdoor unit	Ph-V-Hz		3Ph - 380/415V - 50Hz	
Power cable	Outdoor unit	type	5 x 2.5 mm ²	5 x 4 mm ²	5 x 4 mm ²
Connection wires between I.U. and O.U.		no.	4	4	4
	Cooling	A	4.40 (1.40~6.70)	6.00 (1.80~10.50)	8.10 (3.10~11.50)
Nominal absorbed current Heating		A	4.30 (1.30~6.40)	7.10 (2.00~9.00)	7.40 (2.00~11.50)
Maximum current	ricuting	A	10.00	14.00	14.00
Maximum absorbed power		kW	5.00	7.30	7.50
Refrigerant circuit data		KII	3.00	7.50	7.50
Refrigerant4		type (GWP)	R32 (675)	R32 (675)	R32 (675)
Q.ty of refrigerant pre-charge		Kg	2.4	7.9	3.2
Tons of CO2 equivalent		t	1.620	1,958	2,160
Liquid/gas refrigerant pipe diameter		mm (inches)	1.020	9.52(3/8") / 15.88(5/8")	2.100
Max split length		m	75	75	75
Max difference in height U.I./O.U.		m	30	30	30
Split length without additional charge		m	5	5	5
Additional charge		g/m		24	24
Indoor unit specifications		y/III	<u> </u>	Δ*†	24
Dimensions	LxDxH	mm	1200x750x245	1200x750x245	1200x750x300
Net weight	LADAH	Kq	38.4	40.4	42.9
Sound power level	Hi	dB(A)	62	65	42.9
Sound pressure level	Hi/Mi/Lo/Silent	dB(A)	39/37/34/29	43.5/41.5/39.5/36	44.5/43/41.5/38
Volume of air treated	Hi/Mi/Lo	m³/h	1700/1400/1100	2000/1700/1300	2200/1900/1500
Fan's static pressure	Std/Max	Pa	37/160	50/160	50/160
Diameter of the condensate drain pipe	Jtu/IvidX	mm	025	925	
Outdoor unit specifications		111111	V2.2	WZJ	(ZZ)
	LxDxH	mm	946x410x810	980x415x975	980x415x975
Dimensions Valet weight	LXUXП	mm	946X4 10X8 10 80.5	980x415x975	980X415X975 92
Net weight		Kg dP(A)			
Sound power level		dB(A)	70	73	75
Sound pressure level	Man	dB(A)	63	66	66
Volume of air treated	Max	m³/h	4000	5600	5600
Operating limits (outdoor temperature)	Cooling Heating	°C		-15~50 -20~24	
Optional parts					
Wired control with Wi-Fi module integrated				DMW-WIFI-ZA	

1. Value measured according to the harmonized standard EN1451. 2. EU Regulation No. 206/2012 - - Value measured according to the harmonized standard EN14825. 3. EU Delegated Regulation No. 626/2011 on the new labelling indicating the energy consumption of air conditioners. 4. 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 6/5. Therefore, if it logy of this refrigerant were released into the atmosphere, the impact on global warming would be 6/5 times higher 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. If necessary, always contact qualified personnel. 5. DMC-LCAG-Gateway interface required.



FLOOR/CEILING

3 CAPACITIES

3.50~7.10 kW

COMPACT DESIGN
235 mm height for all models



MSFGS 351~711 ZA

WASHABLE FILTER

air quality optimization

SELF-DIAGNOSIS CHECK CONTROL

MEMORY FUNCTION



DAILY TIMER

MAXIMUM SPLITTING LENGTH 30 m

DOWN TO -20°C

CONTROLS

remote control included



3.50 kW 7.20 4.10 5.30 kW 6.50 4.20

Indoor unit model			MSFGS 351 ZA	MSFGS 531 ZA	MSFGS 711 ZA
Outdoor unit model			MCKGS 351 ZA	MCKGS 531 ZA	MCKGS 711 ZA
Type				DC-Inverter heat pump	
Control (supplied)				Remote control	
Nominal data				nemote condo	
Nominal capacity (T=+35°C)		kW	3.50	5.30	7.10
Nominal absorbed power (T=+35°C)	Cooling	kW	0.92	1.56	2.03
Nominal energy efficiency coefficient	cooming	EER1	3.80	3.40	3.50
Nominal capacity (T=+7°C)		kW	4.00	5.60	7.70
Nominal absorbed power (T=+7°C)	Heating	kW	0.93	1,44	1.95
Nominal energy performance coefficient		COP1	4.30	3.90	3.95
Seasonal data					
Theoretical load (Pdesignc)		kW	3.50	5.30	7.10
Seasonal energy efficiency index		SEER2	7.20	6.50	7.20
Seasonal energy efficiency class	Cooling	626/20113	A++	A++	A++
Annual energy consumption		kWh/y	170	285	345
Theoretical load (Pdesignh) @ -10°C		kW	3.10	3.90	4.70
Seasonal energy efficiency index	Heating (average	SCOP2	4.10	4.20	4.30
Seasonal energy efficiency class	weather conditions)	626/20113	A+	A+	A+
Annual energy consumption		kWh/y	1059	1300	1530
Electrical data	'	,,			
Power supply	Outdoor unit	Ph-V-Hz		1-220~240V-50/60Hz	
Power cable		Type	3 x 1.5 mm ²	3 x 2.5 mm ²	3 x 4 mm ²
Connection wires between I.U. and O.U.		no.	4	4	4
	Cooling	A	4.40	7.30	9.70
Nominal absorbed current	Heating	A	4.50	7.00	9.10
Maximum current		A	6.00	9.50	14.00
Maximum absorbed power		kW	1.30	1.90	2.80
Refrigerant circuit data					
Refrigerant4		Type (GWP)	R32 (675)	R32 (675)	R32 (675)
).ty of refrigerant pre-charge		Kg	0.57	0.85	1.5
ons of CO2 equivalent		t	0.385	0.574	1.013
iguid/gas refrigerant pipe diameter		mm (inches)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 12.74(1/2)	9.52(3/8) / 15.88(5/8)
Max split length		m	30	30	30
Max difference in height U.I./O.U.		m	15	20	20
plit length without additional charge		m	5	5	5
Additional charge		g/m	16	16	20
ndoor unit specifications					
Dimensions	LxDxH	mm	870x665x235	870x665x235	1200x665x235
let weight		Kq	24	25	31
ound power level	SHi	dB(A)	49	59	54
Sound pressure level	SHi/Hi/Mi/Lo	dB(A)	35/34/31/28	41/40/38/36	41/39/37/35
/olume of air treated	SHi/Hi/Mi/Lo	m³/h	650/600/500/400	900/800/700/600	1250/1100/1000/900
Outdoor unit specifications					
Dimensions	LxDxH	mm	675x285x553	745x300x555	889X340X660
Net weight		Kg	24.5	30.5	41.5
ound power level	Max	dB(A)	56	65	69
ound pressure level	Max	dB(A)	48	52	55
/olume of air treated	Max	m³/h	1800	2200	3600
Operating limits (outdoor temperature)	Cooling Heating	°C -		-20~52 -20~24	
Optional parts	Heating			-20:-24	
Wired control with Wi-Fi module integrated				DMW-ZA1 WiFi	
Interface for connection to centralized control				DMC-LCAC-Gateway	
				M-V-CC-T255-G	
Centralized control ⁵				D-CC71-7-IAI	

1. Value measured according to the harmonized standard EN1451. 2. EU Regulation No. 206/2012 - - Value measured according to the harmonized standard EN14825. 3. EU Delegated Regulation No. 626/2011 on the new labelling indicating the energy consumption of air conditioners. 4. Befrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GMP) contribute less to global warming than those with a higher GMP. This appliance contains a refrigerant with a GMP of 675. Therefore, if it by of this refrigerant twerre leases did not the atmosphere, the impact on global warming would be 675 times higher 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. If necessary, always contact qualified personnel. 5. DMC-LCAG-Gateway interface required.



FLOOR/CEILING



3 CAPACITIES

10.10~12.30 kW

-15~50°C in cooling -20~24°C in heating

DOUBLE INSTALLATION POSSIBILITY

TURBO FUNCTION, to heat and cool the environment quickly

WIDE AIR DISTRIBUTION GRILLE

with aerodynamic fins to ensure rapid operation and reduce noise levels

CONTROLS

standard remote control









SEER SCOP 10.10 kW 6.20 4.00

12.10 kW 6.10 4.00

12.30 kW 6.10 4.00

MSFIS 1082~1602 ZA

Indoor unit model Outdoor unit model Type			MSFIS 1082 ZA	MSFIS 1402 ZA	MSFIS 1602 ZA
			MCSIS 1082 ZA	MCSIS 1402 ZA	MCSIS 1602 ZA
			DC-Inverter heat pump		
Control (supplied)				Remote control	
Nominal data		<u>'</u>			
Nominal capacity (T=+35°C)		kW	10.10 (2.73~11.78)	12.10 (3.52~15.24)	12.30 (4.10~16.12)
Nominal absorbed power (T=+35°C)	Cooling	kW	3.10 (0.89~4.30)	3.73 (0.91~6.20)	3.80 (1.10~6.50)
Nominal energy efficiency coefficient		EER1	3.26	3.25	3.24
Nominal capacity (T=+7°C)		kW	11.71 (2.81~12.78)	12.90 (4.10~17.59)	13.10 (4.40~19.35)
Nominal absorbed power (T=+7°C)	Heating	kW	3.14 (0.78~3.95)	3.47 (0.95~5.95)	3.52 (1.12~6.35)
Nominal energy performance coefficient		COP1	3.73	3.72	3.72
Seasonal data	<u> </u>				
Theoretical load (Pdesignc)		kW	10.10	12.10	12.30
Seasonal energy efficiency index		SEER2	6.20	6.10	6.10
Seasonal energy efficiency class	Cooling	626/20113	A++	A++	A++
Annual energy consumption		kWh/y	570	694	916
Theoretical load (Pdesignh) @ -10°C		kW	8.60	11.20	11.80
Seasonal energy efficiency index	Heating (average	SCOP2	4.00	4.00	4.00
Seasonal energy efficiency class	weather conditions)	626/20113	A+	A+	A+
Annual energy consumption	- Conditions)	kWh/y	3150	4025	4165
Electrical data		KITTII J	3130	1025	1105
Power supply	Outdoor unit	Ph-V-Hz		3Ph - 380/415V - 50Hz	
Power cable	Outdoor drift	type	5 x 2.5 mm ²	5 x 4 mm ²	5 x 4 mm ²
Connection wires between I.U. and O.U.		no.	4	4	4
	Cooling	A	6.30 (1.40~6.80)	5.70 (2.10~9.60)	5.80 (3.10~10.80)
Nominal absorbed current	Heating	A	5.50 (1.30~6.20)	5.30 (2.20~9.20)	5.50 (3.10~10.50)
Maximum current			10.00	14.00	14.00
Maximum absorbed power		A kW	5.00	7.30	7.50
Refrigerant circuit data		KII	3.00	7.30	7.30
Refrigerant4		type (GWP)	R32 (675)	R32 (675)	R32 (675)
Q.ty of refrigerant pre-charge		Kg	2.4	2.9	3.2
Tons of CO2 equivalent		t	1.620	1.958	2.160
Liquid/gas refrigerant pipe diameter		mm (inches)	1.020	9.52(3/8") / 15.88(5/8")	2.100
Max split length		m m	75	75	75
Max difference in height U.I./O.U.		m	30	30	30
Split length without additional charge		m	5	5	5
Additional charge		g/m	24	24	24
Indoor unit specifications		yrm	£ 1	Δ1	£ 1
Dimensions	LxDxH	mm	1650x675x235	1650x675x235	1650x675x235
Net weight	ZADAI1	Kg	41.5	41.7	42.3
Sound power level	Hi	dB(A)	64	68	70
Sound pressure level	Hi/Mi/Lo/Silent	dB(A)	51/47.5/45/37	51/49/43/35	53/50/42/36
Volume of air treated	Hi/Mi/Lo	m³/h	1955/1728/1504	2100/1850/1600	2200/1950/1650
Diameter of the condensate drain pipe	THITITITE	mm	Φ25	Φ25	Φ25
Outdoor unit specifications		111111	Ψ2.3	Ψ <i>L</i> J	¥2J
Dimensions	LxDxH	mm	946x410x810	980x415x975	980x415x975
Net weight	LADAIT	Kg	80.5	90	92
Sound power level		dB(A)	70	73	75
Sound pressure level		dB(A)	63	66	66
Volume of air treated	Max	m³/h	4000	5600	5600
	Cooling		T000	-15~50	5000
Operating limits (outdoor temperature)	Heating	- ℃		-15~50 -20~24	
Optional parts	Healing			-zv~z4	
Wired control with Wi-Fi module integrated				DMW-WIFI-ZA	

1. Value measured according to the harmonized standard EN1451.2. EU Regulation No. 206/2012 -- Value measured according to the harmonized standard EN14825.3. EU Delegated Regulation No. 626/2011 on the new labelling indicating the energy consumption of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, ferigerants with a lower global warming potential (GMP) contribute less to global warming than those with a higher GMP. This appliance contains a refrigerant with a GMP of 675. Therefore, if it log of this refrigerant were released into the atmosphere, the impact on global warming would be 675 times higher 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. If necessary, always contact qualified personnel. 5. DMC-LCAC-Gateway interface required.



MW MULTISPLIT R32, THE RANGE

	kW	4.10	5.30	6.10	7.10	8.00	12.10
No. of connectab	le indoor units	1-2	1-2	2-3	2-3	2-4	2-5
		0	0	0	0	0	
		MCKGM 402 Z2	MCKGM 532 Z2	MCKGM 602 Z3	MCKGM 712 Z3	MCKGM 822 Z4	MCKGM 1202 Z5
	MKEGM 267 ZAL	•	•	•	•	•	•
	MKEGM 357 ZAL	•	•	•	•	•	•
	MKEGM 537 ZAL			•	•	•	•
☆ Wi-Fi	MKEGM 717 ZAL				•	•	•
	MKEGM 265 ZAL	•	•	•	•	•	•
	MKEGM 355 ZAL	•	•	•	•	•	•
হ	MKEGM 535 ZAL			•	•	•	•
Wi-Fi	MKEGM 715 ZAL				•	•	•
NEW	MFIGM 261 ZAL	•	•	•	•	•	•
	MFIGM 351 ZAL	•	•	•	•	•	•
	MFIGM 531 ZAL			•	•	•	•
	MTFGM 351 ZL	•	•	•	•	•	•
	MTFGM 531 ZL			•	•	•	•
	MTSGM 351 ZL	•	•	•	•	•	•
(a	MTSGM 531 ZL			•	•	•	•
	MUCGM 261 ZL	•	•	•	•	•	•
E -	MUCGM 351 ZL	•	•	•	•	•	•
	MUCGM 531 ZL			•	•	•	•
	MSEGM 260 ZL	•	•	•	•	•	•
	MSEGM 350 ZL	•	•	•	•	•	•
	MSEGM 530 ZL			•	•	•	•

MW MULTISPLIT R32 ACS









TANK



MULTISPLIT OUTDOOR UNITS

Multiwarm has a wide range of outdoor units, with different power motors. Multisplit outdoor units can be connected up to 5 indoor units, for residential and commercial use.

Equipped with a DC Inverter rotary compressor, they guarantee the best performance in all seasons.







Outdoor unit	EER*	COP*	SEER*	SCOP*
MCKGM 402 Z2	3.72	4.54	7.20 / A++	4.20 / A+
MCKGM 532 Z2	3.58	4.53	7.20 / A++	4.20 / A+
MCKGM 602 Z3	4.12	4.56	7.80 / A++	4.30 / A+
MCKGM 712 Z3	3.77	3.86	7.10 / A++	4.30 / A+
MCKGM 822 Z4	3.77	4.31	7.20 / A++	4.20 / A+
MCKGM 1202 Z5	3.56	4.08	7.20 / A++	4.20 / A+

 $^{{}^{\}star}$ The values reported may vary depending on the combinations chosen. For more information, refer to the technical manuals.

-15°C
High heating operating efficiency

43°C

High cooling operating efficiency

High compactness



OUTDOOR UNITS

6 CAPACITIES

4.10~12.10 kW

UP TO FIVE CONNECTABLE INDOOR UNITS

MAXIMUM FLEXIBILITY

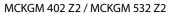
ease of installation guaranteed by wide ranges heating with outdoor temperatures of refrigerant piping splitting

ALL COMPRESSORS ARE ROTARY DC INVERTER



down to -15° C









MCKGM 1202 Z5

MCKGM 602 Z3 / MCKGM 712 Z3 / MCKGM 822 Z4

For the possible combinations that fall within the Eco Bonus tax deduction and the Conto Termico 2.0, it is necessary to request the tables from the MULTIWARM brand technical office.

Outdoor unit model	MCKGM 402 Z2	MCKGM 532 Z2	MCKGM 602 Z3	MCKGM 712 Z3	MCKGM 822 Z4	MCKGM 1202 Z5			
Type				DC-Inverter heat pump outdoor unit					
Connectable indoor units (min - max)		no.	1-2	1-2	2-3	2-3	2 - 4	2 - 5	
Nominal data									
Nominal capacity (T=+35°C)		kW	4.10 (2.05~5.00)	5.30 (2.14~5.80)	6.10 (2.22~8.30)	7.10 (2.30~9.20)	8.00 (2.30~11.00)	12.10 (2.60~15.20)	
Nominal absorbed power (T=+35°C)	Cooling	kW	1.10	1.48	1.48	1.88	2.12	3.40	
Nominal energy efficiency coefficient		EER1	3.72	3.58	4.12	3.77	3.77	3.56	
Nominal capacity (T=+7°C)		kW	4.40 (2.49~5.40)	5.65 (2.58~6.50)	6.50 (3.60~8.50)	8.60 (3.65~9.20)	9.50 (3.65~10.25)	13.00 (3.00~15.50)	
Nominal absorbed power (T=+7°C)	Heating	kW	0.97	1.25	1.43	2.23	2.20	3.19	
Nominal energy performance coefficient		COP1	4.54	4.53	4.56	3.86	4.31	4.08	
Seasonal data									
Theoretical load (Pdesignc)		kW	4.10	5.30	6.10	7.10	8.00	12.10	
Seasonal energy efficiency index	C 1:	SEER2	7.20	7.20	7.80	7.10	7.20	7.20	
Seasonal energy efficiency class	Cooling	626/20113	A++	A++	A++	A++	A++	A++	
Annual energy consumption		kWh/v	199	257	273	350	388	588	
Theoretical load (Pdesignh) @ -10°C		kW	3.80	4.10	6.10	6.10	7.20	13.00	
Seasonal energy efficiency index	Heating (average	SCOP2	4.20	4.20	4.30	4.30	4.20	4.20	
Seasonal energy efficiency class	weather conditions)	626/20113	A+	A+	A+	A+	A+	A+	
Annual energy consumption		kWh/y	1266	1366	1986	1986	2400	4333	
Electrical data			1200	1300	1,000	1700	2100	1555	
Power supply		Ph-V-Hz			1-220~2	240V-50HZ			
Power cable		Type	3 x 2.5 mm ²	3 x 2.5 mm ²	3 x 4 mm ²	3 x 4 mm ²	3 x 4 mm ²	3 x 4 mm ²	
Connection wires between each I.U. and O.U.		no.	4	4	4	4	4	4	
	Cooling	A	4.90	6.60	6.60	8.40	9.40	15.10	
Nominal absorbed current	Heating	A	4.40	5.60	6.30	9.90	9.80	14.20	
Maximum current	Treating	A	10.00	11.00	12.90	15.00	16.00	21.70	
Maximum absorbed power		kW	2.25	2.50	2.90	3.40	3.60	5.00	
Refrigerant circuit data		KII	L.LJ	2.30	2.50	3.10	3.00	3.00	
Refrigerant ⁴		Type (GWP)			R32	(675)			
Q.ty of refrigerant pre-charge		Ka	0.75	0.90	1.60	1.70	1.80	2.40	
Tons of CO2 equivalent		t	0.506	0.608	1.080	1.148	1.215	1.620	
			2 x 6.35(1/4)	2 x 6.35(1/4)	3 x 6.35(1/4)	3 x 6.35(1/4)	4 x 6.35(1/4)	5 x 6.35(1/4)	
Liquid/gas refrigerant pipe diameter		mm (inches)	2 x 9.52(3/8)	2 x 9.52(3/8)	3 x 9.52(3/8)	3 x 9.52(3/8)	4 x 9.52(3/8)	5 x 9.52(3/8)	
Total split length		m	40	40	60	60	70	100	
Max length of a single refrigerant line		m	20	20	20	20	20	25	
Max difference in height I.U./O.U.		m	15	15	15	15	15	25	
Max difference in height between I.U.		m	15	15	15	15	15	25	
Split length without additional charge		m	10	10	30	30	40	50	
		g/m	20	20	20	20	20	20	
Product specifications		9/111	20	20	20	20	20	20	
Dimensions	LxDxH	mm	745x300x550	745x300x550	889x340x654	889x340x654	889x340x654	1020x427x826	
Net weight	LADAII	Kg	30	32	47.5	47.5	51	73	
Sound power level	Max	dB(A)	62	64	68	68	68	74	
Sound pressure level	Max	dB(A)	52	54	58	58	58	60	
Volume of air treated	IVIGA	m ³ /h	2300	2300	3800	3800	3800	5800	
	Cooling	°C	2300	2300		i~43	3000	3000	
Operating limits (outdoor temperature)		°C				i~24			
	Heating	٦. ا			-15	~24			

Seasonal energy efficiency values refer to the following combinations: MCKGM 402 Z2 + 2 x MKEGM 265 ZAL; MCKGM 522 Z2 + 2 x MKEGM 265 ZAL; MCKGM 1202 Z5 + 5 x MKEGM 265 ZAL; MCKGM 1202 Z5 + 5 x MKEGM 265 ZAL; MCKGM 1202 Z5 + 5 x MKEGM 265 ZAL

1. Value measured according to the harmonized standard EN14511. 2. EU Regulation No. 206/2012 - - Value measured according to the harmonized standard EN14825. 3. EU Delegated Regulation No. 626/2011 on the new labelling indicating the energy consumption of air conditioners. 4. 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. Therefore, if 1 kg of this refrigerant were released into the atmosphere, the impact on global warming would be 675 times higher 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.



MULTISPLIT DHW OUTDOOR UNIT

The Multisplit range from Multiwarm is expanding, with an outdoor unit to which both classic indoor units and a 200L tank for DHW production can be connected.

Heating, cooling and production of domestic hot water with a single outdoor unit.

Possibility of producing DHW for free in the summer period thanks to **heat recovery** during the cooling operation of the indoor air-to-air units.



Wide operating range in heating

Wide operating range in cooling

Wide operating range in DHW production

Tank capacity

Energy class in cooling







MWTGM 200 Z4W

DMW WTGM

MCKGWM 1202 Z4W



DHW OUTDOOR UNIT

1 CAPACITY 12.10 kW

UP TO FOUR CONNECTABLE INDOOR

UNITS (including tank)

MAXIMUM FLEXIBILITY

ease of installation guaranteed by wide ranges of refrigerant piping splitting



WIDE OPERATION RANGE

heating and DHW with outdoor temperatures down to -22° C

HEAT RECOVERY

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



Model		Outdoor unit	MCKGWM 1202 Z4W
Туре			DC-Inverter heat pump outdoor unit
/ '	with tank		1-4*
Connectable indoor units (min - max)	without tank	no.	2-4
* When the tank is connected. it is mandatory	to install at least one indoor unit	'	
Nominal data			
Nominal capacity (T=+35°C)		kW	12.10 (2.60~15.20)
Nominal absorbed power (T=+35°C)	Cooling	kW	3.40
Nominal energy efficiency coefficient	Cooling	EER1	3.56
Nominal capacity (T=+7°C)		kW	13.00 (3.00~15.50)
Nominal absorbed power (T=+7°C)	Heating	kW	3.35
Nominal energy performance coefficient	ricating	COP1	3.88
Nominal capacity (T=+7°C)		kW	4.20
Nominal energy performance coefficient	DHW	COP ¹	4.56
Nominal DHW production capacity	DIIW	I /h	90
Seasonal data		L/II	30
Theoretical load (Pdesignc)		kW	12.10
Seasonal energy efficiency index		SEER ²	7.20
Seasonal energy efficiency class	Cooling	626/2011 ³	7.20 A++
Seasonal energy emciency class Annual energy consumption		kWh/y	
Theoretical load (Pdesignh) @ -10°C	Hasting	kW SCOP ²	10.80
Seasonal energy efficiency index	Heating		4.10
Seasonal energy efficiency class	(average weather conditions)	626/2011 ³	A+
Annual energy consumption		kWh/y	3600
COPDHW ⁴		W/W	2.74
Test cycle profile4	Sanitary Water	type	L
Energy efficiency (η wh) ⁵	(average weather conditions)	%	115
Energy efficiency class ⁵		814/2013	A+
Electrical data		91.11.11	
Power supply		Ph-V-Hz	1-220~240V-50HZ
Power cable 1011		Туре	3 x 6 mm ²
Connection wires between each I.U. and O.U.	Continu	no.	4
Nominal absorbed current	Cooling	A	15.00
Martinarium ariumant	Heating	A	14.80
Maximum current		A	29.50
Maximum absorbed power Refrigerant circuit data		kW	6.50
Refrigerant ⁶		Type (GWP)	R32 (675)
Q.ty of refrigerant pre-charge			2.40
Tons of CO2 equivalent		Kg .	1.620
		l l	5 x 6.35(1/4")
Liquid/gas refrigerant pipe diameter		mm (inches)	5 x 9.52(3/8")
Total split length		m	100
Max length of a single refrigerant line		m	25
Max difference in height between tank and 0.U.		m	10
Max difference in height between tank and o.o. Max difference in height U.I./O.U.		m	25
Max difference in height between I.U.		m	25
Split length without additional charge		m	50
Additional charge		g/m	20
Poduct specifications		<i>y</i> -	
Dimensions	LxDxH	mm	1020x427x826
Net weight	·	Kg	73.5
Sound power level	Max	dB(A)	74
Sound pressure level	Max	dB(A)	60
Volume of air treated		m³/h	5800
	Cooling		-15~43
Operating limits (outdoor temperature)	Heating	°C	-22~24
	DHW		-22~43

Seasonal energy efficiency values refer to the following combinations: MCKGWM 1202 Z4W + 2x MKEGM 265 ZAL + 2x MKEGM 355 ZAL

1. Value measured according to harmonized standard EN14511. 2. EU Regulation No. 206/2012 -- 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



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 unit MCKGWM 1202 Z4W

	Indoor unit	MWTGM 200 Z4W
		DHW Tank
	kW	4.20
	Ph-V-Hz	-
	no.	4
	mm (inches)	6.35(1/4") / 9.52(3/8")
Volume	L	185
DxH	mm	462x2000
Net weight	kg	72.5
	W	1500
	inches	G1/2"
	-	Magnesium
	°(35~55
JDED)		DMW WTGM
		NOT available
	DxH Net weight	Ph-V-Hz no. mm (inches) Volume L DxH mm Net weight kg W inches



WIRED CONTROL FOR DHW TANK



DMW WTGM obligatory

Daily Timer

Setting the on and off time, it remains valid for the following days.

Sterilization

Anti-legionella cycle.

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.

Holiday

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

Temp +

Manually increase the hot water storage temperature above the maximum, to have more DHW available when needed.

Standard mode

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

Energy saving mode

Optimizes water heating while considering energy savings.

Quick mode

Minimizes warm-up times for rapid DHW production.

Emergency mode

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



INDOOR UNITS



4 CAPACITIES

2.60~7.20 kW

7 SPEED LEVELS

of ventilation



I-FEEL FUNCTION
SELF-CLEAN FUNCTION
COLD PLASMA FILTER
REMOTE CONTROL INCLUDED

WALL **ACTION**



Model	Model			MKEGM 357 ZAL	MKEGM 537 ZAL	MKEGM 717 ZAL		
Туре			Wall type indoor unit					
Control				Remote	control			
Nominal canacity	Cooling	kW	2.60	3.50	5.00	7.20		
Nominal capacity	Heating	kW	2.80	3.80	5.60	8.50		
Electrical data								
Power supply		Ph-V-Hz	=	-	-	-		
Connection wires between	I.U. and O.U.	no.	4	4	4	4		
Refrigerant circuit data								
Liquid/gas refrigerant pipe	diameter	mm (inches)	ø6.35(1/4") / ø9.52(3/8")	ø6.35(1/4") / ø9.52(3/8")	ø6.35(1/4") / ø9.52(3/8")	ø6.35(1/4") / ø12.74(1/2")		
Product specifications								
Dimensions	LxDxH	mm	708x185x260	835x200x275	943x246x333	943x246x333		
DITTETISIONS	Net weight	Kg	7	9	13	13.5		
Sound power level	Hi~Lo	dB(A)	55/48/46/44/40/37/33	59/50/47/45/41/38/35	60/58/56/54/48/44/41	65/56/54/52/50/46/42		
Sound pressure level	Hi~Lo	dB(A)	38/36/34/32/28/25/21	42/38/35/33/29/26/23	47/45/43/41/35/30/28	50/46/44/42/40/36/32		
Volume of air treated	Hi~Lo	m3/h	500/470/430/390/320/270/250	650/550/470/420/380/350/310	1000/960/870/810/720/640/600	1050/900/740/690/640/590/540		
Optional parts								
Individual wired control			M-RF-CW2-L-G					
Wired control for centralize	d control		M-RF-CW3-L-G					
Wi-Fi module			Integrated					
Centralized control (only po	ssible with wired con	rol)		M-V-CC	-T255-G			

4 CAPACITIES

2.60~7.20 kW

ELEGANT & COMPACT DESIGN 210 mm depth for the 2.60 and

3.50 kW models



MAXIMUM SILENCE only 22 dB(A) in Low mode for the 2.60 kW model

I-FEEL FUNCTION

COLD PLASMA FILTER

REMOTE CONTROL INCLUDED

WALL AIRPRO PLUS



Model			MKEGM 265 ZAL	MKEGM 355 ZAL	MKEGM 535 ZAL	MKEGM 715 ZAL			
Туре				Wall-mounted indoor unit					
Control				Remote	control				
Manainal associate	Cooling	kW	2,60	3,50	5,00	7,20			
Nominal capacity	Heating	kW	2,80	3,80	5,60	8,50			
Electrical data	·								
Power supply		Ph-V-Hz	=	-	-	-			
Connection wires between	ı I.U. and O.U.	no.	4	4	4	4			
Refrigerant circuit data									
Liquid/gas refrigerant pipe	diameter	mm (inches)	ø6,35(1/4") / ø9,52(3/8")	ø6,35(1/4") / ø9,52(3/8")	ø6,35(1/4") / ø12,74(1/2")	ø6,35(1/4") / ø15,9(5/8")			
Product specifications									
Dimensions	LxDxH	mm	865x290x210	865x290x210	996x301x225	1101x327x249			
DITTETISIONS	Net weight	Kg	10,5	10,5	13	16			
Sound power level	Hi~Lo	dB(A)	58/52/50/48/44/40/36	58/53/51/49/46/43/37	60/57/55/54/52/50/46	64/59/56/55/53/51/48			
Sound pressure level	Hi~Lo	dB(A)	41/38/36/34/30/26/22	43/39/37/35/32/29/23	43/41/39/37/35/32/31	48/44/41/40/38/36/33			
Volume of air treated	Hi~Lo	m ³ /h	660/590/540/490/450/420/390	680/590/540/490/450/420/390	850/750/680/610/570/520/460	1250/1100/1000/950/900/850/800			
Optional parts									
Individual wired control			M-RF-CW2-L-G						
Wired control for centralized control			M-RF-CW3-L-G						
Wi-Fi module			Integrated						
Centralized control (only p	ossible with wired con	ntrol)		M-V-CC	-T255-G				



INDOOR UNITS



3 CAPACITIES

2.60~5.00 kW

7 FAN SPEED levels

ELEGANT & COMPACT DESIGN 215 mm deep

CONSOLE



MEMORY FUNCTION, I-FEEL FUNCTION, X-FAN FUNCTION DOUBLE AIR DELIVERY 8° C HEATING REMOTE CONTROL INCLUDED



Model			MFIGM 261 ZAL	MFIGM 351 ZAL	MFIGM 531 ZAL		
Туре			Console type indoor unit				
Control				Remote control			
Nominal capacity	Cooling	kW	2.60	3.50	5.00		
NOTHINAL CAPACITY	Heating	kW	2.80	3.80	5.60		
Electrical data							
Power supply		Ph-V-Hz	-	-	=		
Connection wires between	1.U. and O.U.	no.	4	4	4		
Refrigerant circuit data							
Liquid/gas refrigerant pipe	diameter	mm (inches)	ø6.35(1/4") /ø 9.52(3/8")	ø6.35(1/4") / ø9.52(3/8")	ø6.35(1/4") / ø12.74(1/2")		
Product specifications							
Dimensions	LxDxH	mm	700v215x600	700v215x600	700v215x600		
DIFFICISIONS	Net weight	Kg	15.5	16	16		
Sound power level	Hi~Lo	dB(A)	52/48/46/44/41/38/35	55/51/49/47/44/40/36	60/58/56/53/51/48/43		
Sound pressure level	Hi~Lo	dB(A)	39/36/34/32/29/26/23	44/40/38/36/33/29/25	49/47/45/42/40/37/32		
Volume of air treated	Hi~Lo	m3/h	500/430/410/370/330/280/250	600/520/480/440/400/360/280	750/670/600/520/470/430/350		
Optional parts							
Individual wired control			M-RF-CW2-L-G				
Wired control for centralized control			M-RF-CW3-L-G				
Wi-Fi module			Included				
Centralized control (only p	ossible with wired cont	rol)	M-V-CC-T255-G				

2 CAPACITIES

3.50~5.00 kW

COMPACT DESIGN

265 mm height for recessed installation in false ceilings

MEMORY FUNCTION

COMPACT CASSETTE



WASHABLE FILTER
X-FAN
TOTAL TEMPERATURE CONTROL
REMOTE CONTROL INCLUDED



Model			MTFGM 351 ZL	MTFGM 531 ZL		
Туре				Cassette type indoor unit		
Control				e control		
Manainal same site.	Cooling	kW	3.50	5.00		
Nominal capacity	Heating	kW	3.80	5.60		
Electrical data	·					
Power supply		Ph-V-Hz	=	-		
Connection wires betwee	n I.U. and O.U.	no.	4	4		
Refrigerant circuit data						
Liquid/gas refrigerant pip	ne diameter	mm (inches)	ø6.35(1/4") / ø9.52(3/8")	ø6.35(1/4") / ø12.74(1/2")		
Product specifications						
Dimensions	LxDxH	mm	570x570x265	570x570x265		
DILLIGIIZIOLIZ	Net weight	Kg	17	17		
Sound power level	Hi~Lo	dB(A)	57/55/52/50/48/46/44	59/55/52/50/48/46/44		
Sound pressure level	Hi~Lo	dB(A)	41/39/36/34/32/30/28	43/39/36/34/32/30/28		
Volume of air treated	Hi~Lo	m³/h	560/540/490/450/420/380/350	650/540/490/450/420/380/350		
Accessories						
Decorative panel			MTFPG	350 ZA		
Optional parts						
Individual wired control v	with connection cable		M-RF-CW2-L-G+C	W2-SE-TF-ADAPTOR		
Wired control for centralized control		M-RF-CW3-L-G				
Wired control with integr			DMW-ZAL	LCAC WiFi		
Centralized control (only	possible with wired control)		M-V-CC	-T255-G		

INDOOR UNITS



2 CAPACITIES

3.50~5.00 kW

COMPACT DESIGN

178mm height for recessed installation in false ceilings



MEMORY FUNCTION

WASHABLE FILTER

CONDENSATE DRAIN PUMP INCLUDED max height difference 1000 mm

REMOTE CONTROL INCLUDED



Wired control with optional integrated WiFi

1-WAY CASSETTE

Model			MTSGM 351 ZL	MTSGM 531 ZL		
Туре			Cassette type indoor unit			
Control			Remote cont	rol		
Nominal canacity	Cooling	kW	3.50	5.00		
Nominal capacity	Heating	kW	3.80	5.60		
Electrical data						
Power supply		Ph-V-Hz	-	-		
Connection wires between	n I.U. and O.U.	no.	4	4		
Refrigerant circuit data						
Liquid/gas refrigerant pip	e diameter	mm (inches)	ø6.35(1/4") / ø9.52(3/8")	ø6.35(1/4") / ø12.74(1/2")		
Product specifications						
Dimensions	LxDxH	mm	987x385x178	987x385x178		
DILLIGIUSIONS	Net weight	Kg	19	20		
Sound power level	Hi~Lo	dB(A)	53/50/43/41	56/53/48/45		
Sound pressure level	Hi~Lo	dB(A)	42/39/35/31	43/40/35/32		
Volume of air treated	Hi~Lo	m3/h	600/500/440/390	700/600/500/450		
Accessories						
Decorative panel			MTSPG 351	7		
Optional parts						
Individual wired control w			M-RF-CW2-L-G + CW2-S	SE-TF-ADAPTOR		
Wired control for centralized control			M-RF-CW3-L-G			
Wired control with integra	ated Wi-Fi module		DMW-ZAL-LCA0	C WiFi		
Centralized control (only p	possible with wired contr	ol)	M-V-CC-T255	5-G		

3 CAPACITIES

2.60~5.00 kW

MAXIMUM COMPACTNESS only 200 mm high

MEMORY FUNCTION



WASHABLE FILTER 6 FAN SPEED LEVELS DAILY TIMER WIRED CONTROL INCLUDED



$Wired\,remote\,control\,with$ Wi-Fi built-in WiFi as standard

DUCTED

Model Type Standard control			MUCGM 261 ZL	MUCGM 351 ZL	MUCGM 531 ZL
			Ducted type indoor unit Wired control		
Heating	kW	2.80	3.80	5.60	
Electrical data					
Power supply		Ph-V-Hz	=	-	-
Connection wires between I.U. and O.U.		no.	4	4	4
Refrigerant circuit data					
Liquid/gas refrigerant pipe diameter mm (inc		mm (inches)	ø6.35(1/4") / ø9.52(3/8")	ø6.35(1/4") / ø9.52(3/8")	ø6.35(1/4") / ø12.74(1/2")
Product specifications					
Dimensions	LxDxH	mm	710x450x200	710x450x200	1010x450x200
	Net weight	Kg	18.5	19	25
Sound power level	Hi~Lo	dB(A)	57/55/54/53/52/51/50	55/53/52/51/50/49/48	57/55/55/54/54/53/50
Sound pressure level	Hi~Lo	dB(A)	41/39/38/37/36/35/34	39/37/36/35/34/33/32	41/39/39/38/38/37/34
Volume of air treated	Hi~Lo	m³/h	700/670/640/610/580/550/520	650/560/520/480/450/410/380	880/840/810/790/770/750/730
Fan's static pressure	Std/Max	Pa	25/60	25/60	25/60
Optional parts					
Wi-Fi module			Integrated in the standard wired control		
Centralized control			M-V-CC-T255-G		

INDOOR UNITS

3 CAPACITIES

2.60~5.00 kW

WASHABLE FILTER

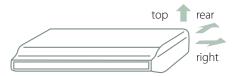
MEMORY FUNCTION

X-FAN

TOTAL TEMPERATURE CONTROL

REMOTE CONTROL INCLUDED







FLOOR/C	EILING				Wired remote control with optional integrated WiFi
Model			MSEGM 260 ZL	MSEGM 350 ZL	MSEGM 530 ZL
Type				Ceiling type indoor unit	
Control				Remote control	
Naminal canacity	Cooling	kW	2.60	3.50	5.00
Nominal capacity	Heating	kW	2.80	3.80	5.60
Electrical data					
Power supply		Ph-V-Hz	-	-	-
Connection wires betwee	n I.U. and O.U.	no.	4	4	4
Refrigerant circuit data					
Liquid/gas refrigerant pip	oe diameter	mm (inches)	ø6.35(1/4") / ø9.52(3/8")	ø6.35(1/4") / ø9.52(3/8")	ø6.35(1/4") / ø12.74(1/2")
Product specifications					
Dimensions	LxDxH	mm	870x235x665	870x235x665	870x235x665
DITTETISIONS	Net weight	Kg	25	25	25.5
Sound power level	Hi~Lo	dB(A)	38/35/30/26	38/35/30/26	38/35/30/26
Sound pressure level	Hi~Lo	dB(A)	52/49/44/40	52/49/44/40	52/49/44/40
Volume of air treated	Hi~Lo	m³/h	700/610/540/420	700/610/540/420	680/590/520/410
Motor power	Output	W	15	15	15
Optional parts					
Individual wired control of	on cavetto di collegan	M-RF-CW2-L-G + CW2-SE-TF-ADAPTOR			
Wired control for centrali	zed control			M-RF-CW3-L-G	
Wired control with integr	rated Wi-Fi module			DMW-ZAL-LCAC WiFi	
Centralized control (only	possible with wired co	ntrol)		M-V-CC-T255-G	

R32 COOLING COMBINATIONS



0			Combination	IS			Rate	ed capacity (kW)		Total co	oling capac	ity (kW)	Abso	rbed powe	r (kW)	FED	CEED	Energy	Conto
Outdoor units	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min	Nom	Max	Min	Nom	Max	EER	SEER	Class	Termico 2.0*
	26	-		-	-	2.60	-	-	-	-	2.05	2.60	3.00	0.20	0.70	1.30	3.71	6.10	A++	-
	35	-	-	-	-	3.50	-	-	-	-	2.05	3.50	4.00	0.30	1.00	1.78	3.50	6.10	A++	-
MCKGM 402 Z2	26	26	-	-	-	2.05	2.05	-	-	-	2.05	4.10	5.00	0.40	1.10	2.20	3.73	7.20	A++	-
	26	35	-	-	-	1.76	2.34	-	-	-	2.05	4.10	5.00	0.40	1.10	2.20	3.73	7.20	A++	-
	26	-	-	-	-	2.6	-	-	-	-	2.15	2.60	3.00	0.30	0.70	1.50	3.71	6.10	A++	-
	35	-	-	-	-	3.5	-	-	-	-	2.15	3.50	3.80	0.30	1.20	1.80	2.92	6.10	A++	-
MCKGM 532 Z2	26	26	-	-	-	2.65	2.65	-	-	-	2.15	5.30	5.80	0.40	1.48	2.50	3.58	7.20	A++	-
	26	35	-	-	-	2.30	3.00	-	-	-	2.15	5.30	5.80	0.50	1.48	2.50	3.58	7.20	A++	_
	35	35	_	-	_	2.65	2.65	_	-	_	2.15	5.30	5.80	0.50	1.48	2.50	3.58	7.20	A++	_
	26	26	-	-	-	2.65	2.65	-	-	-	2.20	5.30	6.00	0.40	1.20	2.60	4.42	6.10	A++	_
	26	35	_	-	-	2.60	3.50	-	-	-	2.20	6.10	7.20	0.50	1.48	2.90	4.12	6.10	A++	_
	26	53	_	-	-	2.03	4.07	-	-	_	2.20	6.10	8.30	0.60	1.48	2.90	4.12	6.10	A++	_
MCKGM 602 Z3	35	35	_	_	_	3.05	3.05	_	_	_	2.20	6.10	8.30	0.60	1.48	2.90	4.12	6.10	A++	_
MCKGM 002 25	35	53	_	_	_	2.44	3.66	_	_	_	2.20	6.10	8.30	0.60	1.48	2.90	4.12	6.10	A++	_
	26	26	26	_	_	2.03	2.03	2.03	_	_	2.20	6.10	8.30	0.60	1.48	2.90	4.12	7.80	A++	_
	26	26	35	_	_	1.83	1.83	2.44	_	_	2.20	6.10	8.30	0.60	1.48	2.90	4.12	7.80	A++	-
	26	26	- 22	_	_	2.65	2.65	Z.44 -	-	_	2.30	5.30	6.30	0.80	1.40	3.00	3.79	6.10	A++	_
	26	35	_	-	-	2.60	3.50	-	-	-	2.30	6.10	7.30	1.00	1.40	3.20	3.71	6.10	A++	
	26	53	_	-	-	2.37	4.73	-	-	-	2.30	7.10	8.50	1.10	1.88	3.40	3.78	6.10	A++	
}		35	-		-		3.55	_	-	_		_			_					
	35 35	53	-	-	-	3.55 2.84	4.26	-	-	-	2.30	7.10 7.10	9.20 9.20	1.10	1.88	3.40	3.78	6.10	A++	-
MCVCM 712 72																3.40	_	6.10	A++	
MCKGM 712 Z3	53	53	- 26	-	-	3.55	3.55	2 27	-	-	2.30	7.10	9.20	1.10	1.88	3.40	3.78	6.10	A++	-
	26	26	26	-	-	2.37	2.37	2.37	-	-	2.30	7.10	9.20	1.10	1.88	3.40	3.78	7.10	A++	-
	26	26	35	-	-	2.13	2.13	2.84	-	-	2.30	7.10	9.20	1.10	1.88	3.40	3.78	7.10	A++	-
	26	26	53	-	-	1.78	1.78	3.55	-	-	2.30	7.10	9.20	1.10	1.88	3.40	3.78	7.10	A++	-
	26	35	35	-	-	1.94	2.58	2.58	-		2.30	7.10	9.20	1.10	1.88	3.40	3.78	7.10	A++	-
	35	35	35	-	-	2.37	2.37	2.37		-	2.30	7.10	9.20	1.10	1.88	3.40	3.78	7.10	A++	-
	26	26	-	-	-	2.65	2.65	-	-	-	2.30	5.30	6.30	0.80	1.40	2.60	3.79	6.10	A++	-
	26	35	-	-	-	2.60	3.50	-	-	-	2.30	6.10	7.30	0.80	1.60	2.80	3.81	6.10	A++	-
	26	53	-	-	-	2.60	5.00	-	-	-	2.30	7.60	8.50	1.20	2.00	2.80	3.80	6.10	A++	-
	35	35	-	-	-	3.50	3.50	-	-	-	2.30	7.00	9.20	1.20	1.80	2.80	3.89	6.10	A++	-
	35	53	-	-	-	3.20	4.80	-	-	-	2.30	8.00	10.00	1.20	2.12	3.40	3.77	6.10	A++	-
	53	53	-	-	-	4.00	4.00	-	-	-	2.30	8.00	11.00	1.20	2.12	3.60	3.77	6.10	A++	-
	26	26	26	-	-	2.67	2.67	2.67	-	-	2.30	8.00	10.00	1.30	2.00	3.40	4.00	6.50	A++	-
MCKGM 822 Z4	26	26	35	-	-	2.40	2.40	3.20	-	-	2.30	8.00	11.00	1.30	2.12	3.60	3.77	6.50	A++	-
menam ozz z i	26	26	53	-	-	2.00	2.00	4.00	-	-	2.30	8.00	11.00	1.30	2.12	3.60	3.77	6.50	A++	-
	26	35	35	-	-	2.18	2.91	2.91	-	-	2.30	8.00	11.00	1.30	2.12	3.60	3.77	6.50	A++	-
	26	35	53	-	-	1.85	2.46	3.69	-	-	2.30	8.00	11.00	1.30	2.12	3.60	3.77	6.50	A++	-
	35	35	35	-	-	2.67	2.67	2.67	-	-	2.30	8.00	11.00	1.30	2.12	3.60	3.77	6.50	A++	-
	35	35	53	-	-	2.29	2.29	3.43	-	-	2.30	8.00	11.00	1.30	2.12	3.60	3.77	6.50	A++	-
	26	26	26	26	-	2.00	2.00	2.00	2.00	-	2.30	8.00	11.00	1.30	2.12	3.60	3.77	7.20	A++	
	26	26	26	35	-	1.85	1.85	1.85	2.46	-	2.30	8.00	11.00	1.30	2.12	3.60	3.77	7.20	A++	-
	26	26	35	35	-	1.71	1.71	2.29	2.29	-	2.30	8.00	11.00	1.30	2.12	3.60	3.77	7.20	A++	-
	26	35	-	-	-	2.60	3.50	-	-	-	2.60	6.10	7.50	1.60	2.30	4.60	2.65	6.10	A++	-
	26	53	-	-	-	2.60	5.00	-	-	-	2.60	7.60	9.00	1.60	2.60	4.60	2.92	6.10	A++	-
	26	71	-	-	-	2.60	7.20	-	-	-	2.60	9.80	11.00	1.60	3.40	4.60	2.88	6.10	A++	-
	35	35	-	-	-	3.50	3.50	-	-	-	2.60	7.00	9.20	1.60	2.40	4.60	2.92	6.10	A++	-
	35	53		-	-	3.50	5.00	-		-	2.60	8.50	10.00	1.60	3.00	4.60	2.83	6.10	A++	-
	35	71	-	-	-	3.50	7.10	-	-	-	2.60	10.60	12.00	1.60	3.40	4.60	3.12	6.10	A++	-
	53	53		-	-	5.30	5.30	-	-	-	2.60	10.60	12.00	1.60	3.40	4.60	3.12	6.10	A++	-
	53	71	-	-	-	4.55	6.05	-	-	-	2.60	10.60	12.00	1.60	3.40	4.60	3.12	6.10	A++	-
	71	71	-	-	-	5.30	5.30	-	-	-	2.60	10.60	12.00	1.60	3.40	4.60	3.12	6.10	A++	-
	26	26	26	-	-	2.67	2.67	2.67	-	-	2.60	8.00	10.00	1.60	2.80	4.60	2.86	6.10	A++	-
MCKGM 1202 Z5	26	26	35	-	-	2.60	2.60	4.20	-	-	2.60	9.40	11.00	1.60	3.40	4.60	2.76	6.10	A++	-
	26	26	53	_	_	2.60	2.60	5.00	-	-	2.60	10.20	13.02	1.60	3.00	4.60	3.40	6.10	A++	_
	26	26	71	_	-	2.60	2.60	6.90	-	-	2.60	12.10	15.02	1.60	3.40	4.60	3.56	6.10	A++	-
	26	35	35	_	_	2.60	3.50	3.50	-	_	2.60	9.60	11.94	1.60	3.00	4.60	3.20	6.10	A++	_
	26	35	53	-	-	2.60	3.50		-	-	2.60				3.40		3.26			
}		35	71	_				5.00 6.50	-	-	2.60	11.10	14.11	1.60	3.40	4.60	3.56	6.10	A++	-
	26				-	2.40	3.20					12.10	15.20	1.60	1	4.60			A++	
	26	53	53	-	-	2.50	4.80	4.80	-	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	26	53	71	-	-	2.10	4.30	5.70	-	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	26	71	71	-	-	1.90	5.10	5.10	-	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	35	35	35	-	-	3.50	3.50	3.50	-	-	2.60	10.50	13.02	1.60	3.00	4.60	3.50	6.10	A++	-

Energy Class = EU Delegated Regulation No. 626/2011 on the new labelling indicating the energy consumption of air conditioners. SEER = EU Regulation No. 206/2012 - - Value measured according to the harmonized standard EN14825. EER = Value measured according to the harmonized standard EN14511.

* For Italian market only.



R32 COOLING COMBINATIONS



0.11		(ombination	IS		Ì	Rate	d capacity (kW)		Total co	oling capac	ity (kW)	Absor	bed power	r (kW)	ren.	CEED	Energy	Conto
Outdoor units	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min	Nom	Max	Min	Nom	Max	EER	SEER	Class	Termico 2.0*
	35	35	53	-	-	3.50	3.50	5.10	-	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	35	35	71	-	-	3.00	3.00	6.10	-	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	35	53	53	-	-	3.10	4.50	4.50	-	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	35	53	71	-	-	2.70	4.00	5.40	-	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	35	71	71	-	-	2.50	4.80	4.80	-	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	53	53	53	-	-	4.03	4.03	4.03	-	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	53	53	71	-	-	3.60	3.60	4.90	-	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	26	26	26	26	-	2.60	2.60	2.60	2.60	-	2.60	10.40	13.02	1.60	3.40	4.60	3.06	7.20	A++	-
	26	26	26	35	-	2.60	2.60	2.60	3.50	-	2.60	11.30	14.11	1.60	3.40	4.60	3.32	7.20	A++	-
	26	26	26	53	-	2.42	2.42	2.42	4.84	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	26	26	26	71	-	2.14	2.14	2.14	5.69	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	26	26	35	35	-	2.59	2.59	3.46	3.46	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	7.20	A++	-
	26	26	35	53	-	2.27	2.27	3.03	4.54	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	26	26	35	71	-	2.02	2.02	2.69	5.38	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	26	26	53	53	-	2.02	2.02	4.03	4.03	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	26	26	53	71	-	1.82	1.82	3.63	4.84	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	26	35	35	35	-	2.42	3.23	3.23	3.23	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	7.20	A++	-
	26	35	35	53	-	2.14	2.85	2.85	4.27	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	26	35	35	71	-	1.91	2.55	2.55	5.09	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
MCKGM 1202 Z5	26	35	53	53	-	1.91	2.55	3.82	3.82	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	26	35	53	71	-	1.73	2.30	3.46	4.61	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	26	53	53	53	-	1.73	3.46	3.46	3.46	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	35	35	35	35	-	3.03	3.03	3.03	3.03	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	7.20	A++	-
	35	35	35	53	-	2.69	2.69	2.69	4.03	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	35	35	35	71	-	2.42	2.42	2.42	4.84	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	35	35	53	53	-	2.42	2.42	3.63	3.63	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	26	26	26	26	26	2.42	2.42	2.42	2.42	2.42	2.60	12.10	15.20	1.60	3.40	4.60	3.56	7.20	A++	-
	26	26	26	26	35	2.27	2.27	2.27	2.27	3.03	2.60	12.10	15.20	1.60	3.40	4.60	3.56	7.20	A++	-
	26	26	26	26	53	2.02	2.02	2.02	2.02	4.03	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	26	26	26	26	71	1.82	1.82	1.82	1.82	4.84	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	26	26	26	35	35	2.14	2.14	2.14	2.85	2.85	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	26	26	26	35	53	1.91	1.91	1.91	2.55	3.82	2.60	12.10	15.20	1.60	3.40	4.60	3.56	7.20	A++	-
	26	26	26	35	71	1.73	1.73	1.73	2.30	4.61	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	26	26	26	53	53	1.73	1.73	1.73	3.46	3.46	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	26	26	35	35	35	2.02	2.02	2.69	2.69	2.69	2.60	12.10	15.20	1.60	3.40	4.60	3.56	7.20	A++	-
	26	26	35	35	53	1.82	1.82	2.42	2.42	3.63	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	26	35	35	35	35	1.91	2.55	2.55	2.55	2.55	2.60	12.10	15.20	1.60	3.40	4.60	3.56	7.20	A++	-
	26	35	35	35	53	1.73	2.30	2.30	2.30	3.46	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	-
	35	35	35	35	35	2.42	2.42	2.42	2.42	2.42	2.60	12.10	15.20	1.60	3.40	4.60	3.56	7.20	A++	-

Energy Class = EU Delegated Regulation No. 626/2011 on the new labelling indicating the energy consumption of air conditioners. SEER = EU Regulation No. 206/2012 - - Value measured according to the harmonized standard EN14825. EER = Value measured according to the harmonized standard EN14511.

* For Italian market only.



R32 HEATING COMBINATIONS

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0		(Combination	IS			Rate	ed capacity (kW)		Total he	ating capad	ity (kW)	Abso	rbed power	r (kW)	COD	CCOD	Energy	Conto
Outdoor units	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min	Nom	Max	Min	Nom	Max	COP	SCOP	Class	Termico 2.0*
	26	-	-	-	-	2.80	-	-	-	-	2.49	2.80	3.02	0.30	0.80	1.80	3.50	4.00	A+	NO
116/611 400 70	35	-	-	-	-	3.80	-	-	-	-	2.49	3.80	4.10	0.40	0.80	2.00	4.75	4.00	A+	YES
MCKGM 402 Z2	26	26	-	-	-	2.20	2.20	-	-	-	2.50	4.40	5.40	0.60	0.97	2.25	4.54	4.20	A+	YES
	26	35	-	-	-	1.89	2.51	-	-	-	2.50	4.40	5.40	0.60	0.97	2.25	4.54	4.20	A+	YES
	26	-	-	-	-	2.80	-	-	-	-	2.58	2.80	3.02	0.40	0.80	1.80	3.50	4.00	A+	NO
	35	-	-	-	-	3.80	-	-	-	-	2.58	3.80	4.10	0.40	0.80	2.00	4.75	4.00	A+	YES
MCKGM 532 Z2	26	26	-	-	-	2.70	2.70	-	-	-	2.58	5.65	6.50	0.70	1.25	2.50	4.52	4.20	A+	YES
	26	35	-	-	-	2.31	3.09	-	-	-	2.58	5.65	6.50	0.70	1.25	2.50	4.52	4.20	A+	YES
	35	35	-	-	-	2.70	2.70	-	-	-	2.58	5.65	6.50	0.70	1.25	2.50	4.52	4.20	A+	YES
	26	26	-	-	-	2.80	2.80	-	-	-	2.70	5.60	8.50	0.60	1.23	2.50	4.57	4.00	A+	YES
	26	35	-	-	-	2.70	3.80	-	-	-	2.70	6.50	8.50	0.80	1.43	2.90	4.55	4.00	A+	YES
	26	53	-	-	-	2.17	4.33	-	-	-	2.70	6.50	8.50	0.80	1.43	2.90	4.55	4.00	A+	YES
MCKGM 602 Z3	35	35	-	-	-	3.25	3.25	-	-	-	2.70	6.50	8.50	0.80	1.43	2.90	4.55	4.00	A+	YES
	35	53	-	-	-	2.60	3.90	-	-	-	2.70	6.50	8.50	0.80	1.43	2.90	4.55	4.00	A+	YES
	26	26	26	-	-	2.17	2.17	2.17	-	-	2.70	6.50	8.50	0.80	1.43	2.90	4.55	4.30	A+	YES
	26	26	35	-	-	1.95	1.95	2.60	-	-	2.70	6.50	8.50	0.80	1.43	2.90	4.55	4.30	A+	YES
	26	26	-	-	-	2.60	2.60	-	-	-	2.80	6.40	8.80	0.60	1.67	2.40	3.83	4.00	A+	YES
	26	35	-	_	-	2.60	3.80	_	-	-	2.80	7.50	8.80	0.60	1.95	2.60	3.84	4.00	A+	YES
	26	53	-	-	-	2.80	5.60	-	-	-	2.80	8.60	8.80	0.80	2.23	3.00	3.86	4.00	A+	YES
	35	35	-	-	-	4.25	4.25	-	-	-	2.80	8.60	8.80	0.80	2.23	3.00	3.86	4.00	A+	YES
	35	53	-	_	-	3.40	5.10	_	-	-	2.80	8.60	8.80	0.80	2.23	3.00	3.86	4.00	A+	YES
MCKGM 712 Z3	53	53	_	_	_	4.25	4.25	_	_	_	2.80	8.60	8.80	0.80	2.23	3.00	3.86	4.00	A+	YES
cnam / IZ EJ	26	26	26	_	_	2.83	2.83	2.83	_	_	2.80	8.60	9.20	0.80	2.23	3.00	3.86	4.30	A+	YES
	26	26	35	-	_	2.55	2.55	3.40	_	_	2.80	8.60	9.20	0.80	2.23	3.00	3.86	4.30	A+	YES
	26	26	53	_	_	2.13	2.13	4.25	_	_	2.80	8.60	9.20	0.80	2.23	3.00	3.86	4.30	A+	YES
	26	35	35	_	-	2.32	3.09	3.09	_	_	2.80	8.60	9.20	0.80	2.23	3.00	3.86	4.30	A+	YES
	35	35	35		_	2.83	2.83	2.83		_	2.80	8.60	9.20	0.80	2.23	3.00	3.86	4.30	A+	YES
	26	26	-	_	_	2.80	2.80	- 2.03	_	_	2.80	5.60	10.00	0.70	1.41	2.50	3.96	4.00	A+	YES
	26	35	-	_	_	2.80	5.43	_	-	_	2.80	8.23	10.25	0.70	1.65	2.60	4.99	4.00	A+	YES
	26	53	_	_	_	2.80	3.80	_	_	_	2.80	6.60	10.25	1.00	2.12	3.40	3.11	4.00	A+	NO
	35	35	_	_	_	3.80	3.80	_	_	_	2.80	7.60	10.25	0.90	1.89	2.80	4.03	4.00	A+	YES
	35	53	_	_	_	3.80	5.60	_	_	_	2.80	9.40	10.25	1.00	2.20	3.60	4.03	4.00	A+	YES
	53	53	_	_	-	4.75	4.75	_	_	-	2.80	9.40	10.25	1.00	2.20	3.60	4.27	4.00	A+	YES
	26	26	26	_	_	3.17	3.17	3.17	_	_	2.80	9.50	10.25	1.00	2.12	3.40	4.48	4.00	A+	YES
	26	26	35	_	_	2.85	2.85	3.80	_	_	2.80	9.50	10.25	1.00	2.12	3.60	4.40	4.00	A+	YES
MCKGM 822 Z4	26	26	53	_	-	2.83	2.38	4.75	_	-	2.80	9.50	10.25	1.00	2.20	3.60	4.32	4.00	A+	YES
	26	35	35	-	-	2.59	3.45	3.45	-	_	2.80	9.50	10.25	1.00	2.20	3.60	4.32	4.00	A+	YES
	26	35	53	-	-	2.19	2.92	4.38	_	-	2.80	9.50		1.00	2.20	3.60	4.32		A+	YES
	35	35	35	-	-	3.17	3.17	3.17	-	-	2.80	9.50	10.25 10.25	1.00	2.20		4.32	4.00	A+	YES
	35	35	53	_	-	2.71			_	_					2.20	3.60	4.32	4.00	A+	YES
							2.71	4.07			2.80	9.50	10.25	1.00		3.60				
	26 26	26 26	26 26	26 35	-	2.38	2.38	2.38	2.38	-	2.80	9.50 9.50	10.25 10.25	1.00	2.20	3.60 3.60	4.32	4.20	A+ A+	YES
	26	26	35	35	-	2.19	2.19	2.19	2.92		2.80	9.50	10.25	1.00	2.20	3.60	4.32	4.20	A+	YES
	-		33	33	-				Z./ I	-										
	26	35	-	-	-	2.80	3.80	-	-	-	3.00	6.60	7.75	1.61	2.30	4.20	2.87	4.00	A+	NO NO
	26	53	-	-	-	2.80	5.60	-	-	-	3.00	8.40	9.96	1.61	2.60	4.50	3.23	4.00	A+	NO VEC
	26	71	-	-	-	2.80	8.50	-	-		3.00	11.30	12.17	1.61	2.80	4.50	4.04	4.00	A+	YES
	35	35	-	-	-	3.80	3.80	-	-	-	3.00	7.60	8.85	1.61	2.60	4.50	2.92	4.00	A+	NO NO
	35	53	-	-	-	3.80	5.60	-	-	-	3.00	9.40	11.07	1.61	2.80	4.50	3.36	4.00	A+	NO VEC
	35	71	-	-		3.80	8.50	-	-		3.00	12.30	13.28	1.61	2.80	4.50	4.39	4.00	A+	YES
	53	53	-	-	-	5.60	5.60	-	-	-	3.00	11.20	13.28	1.61	2.80	4.50	4.00	4.00	A+	YES
	53	71	-	-	-	5.57	7.43	-	-	-	3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	71	71	-	-	-	6.50	6.50	- 2.00	-	-	3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
MCKGM 1202 Z5	26	26	26	-	-	2.80	2.80	2.80	-	-	3.00	8.40	9.96	1.61	2.60	4.50	3.23	4.00	A+	NO NO
	26	26	35	-	-	2.80	2.80	3.80	-	-	3.00	9.40	11.07	1.61	2.80	4.50	3.36	4.00	A+	NO VEC
	26	26	53	-	-	2.80	2.80	5.60	-	-	3.00	11.20	13.28	1.61	2.80	4.50	4.00	4.00	A+	YES
	26	26	71	-	-	2.79	2.79	7.43	-	-	3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	26	35	35	-	-	2.80	3.80	3.80	-	-	3.00	10.40	12.17	1.61	2.80	4.50	3.71	4.00	A+	YES
	26	35	53	-	-	2.80	3.80	5.60	-	-	3.00	12.20	14.39	1.61	3.19	5.00	3.82	4.00	A+	YES
	26	35	71	-	-	2.60	3.47	6.93	-		3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	26	53	53	-	-	2.60	5.20	5.20	-	-	3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	26	53	71	-	-	2.29	4.59	6.12	-	-	3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
		71	71	-	-	2.05	5.47	5.47	-	_	3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	26 35	35	35	_	_	4.33	4.33	4.33	-	-	3.00	13.00	13.28	1.61	2.80	4.50	4.64	4.00	A+	YES

Energy Class = EU Delegated Regulation No. 626/2011 on the new labelling indicating the energy consumption of air conditioners. SCOP = EU Regulation No. 206/2012 - - Value measured according to the harmonized standard EN14825. COP = Value measured according to the harmonized standard EN14511.

* For Italian market only.



R32 HEATING COMBINATIONS

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		(Combination	ns			Rate	ed capacity (kW)		Total he	ating capac	itv (kW)	Absor	bed power	r (kW)			Energy	Conto
Outdoor units	Unit A	Unit B	Unit C	Unit D	Unit E	Unità A	Unit B	Unit C	Unit D	Unit E	Min	Nom	Max	Min	Nom	Max	COP	SCOP	Class	Termico 2.0*
	35	35	53	O THE D	O TINCE	3.71	3.71	5.57	0111112	O.IIIC E	3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	35	35	71			3.25	3.25	6.50			3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	35	53	53			3.25	4.88	4.88			3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	35	53	71			2.89	4.33	5.78			3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	35	71	71			2.60	5.20	5.20			3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	53	53	53			4.33	4.33	4.33			3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	53	53	71			3.90	3.90	5.20			3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	26	26	26	26		3.25	3.25	3.25	3.25		3.00	13.00	14.00	1.61	3.00	4.80	4.33	4.00	A+	YES
	26	26	26	35		3.00	3.00	3.00	4.00		3.00	13.00	14.39	1.61	3.19	5.00	4.08	4.00	A+	YES
	26	26	26	53		2.60	2.60	2.60	5.20		3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	26	26	26	71		2.29	2.29	2.29	6.12		3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	26	26	35	35		2.79	2.79	3.71	3.71		3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	26	26	35	53		2.44	2.44	3.25	4.88		3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	26	26	35	71		2.17	2.17	2.89	5.78		3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	26	26	53	53		2.17	2.17	4.33	4.33		3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	26	26	53	71		1.95	1.95	3.90	5.20		3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	26	35	35	35		2.60	3.47	3.47	3.47		3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	26	35	35	53		2.29	3.06	3.06	4.59		3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	26	35	35	71		2.05	2.74	2.74	5.47		3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
MCKGM 1202 Z5	26	35	53	53		2.05	2.74	4.11	4.11		3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
WCKGW 1202 ES	26	35	53	71		1.86	2.48	3.71	4.95		3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	26	53	53	53		1.86	3.71	3.71	3.71		3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	35	35	35	35		3.25	3.25	3.25	3.25		3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	35	35	35	53		2.89	2.89	2.89	4.33		3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	35	35	35	71		2.60	2.60	2.60	5.20		3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	35	35	53	53		2.60	2.60	3.90	3.90		3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	26	26	26	26	26	2.60	2.60	2.60	2.60	2.60	3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.20	A+	YES
	26	26	26	26	35	2.44	2.44	2.44	2.44	3.25	3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.20	A+	YES
	26	26	26	26	53	2.17	2.17	2.17	2.17	4.33	3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	26	26	26	26	71	1.95	1.95	1.95	1.95	5.20	3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	26	26	26	35	35	2.29	2.29	2.29	3.06	3.06	3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.20	A+	YES
	26	26	26	35	53	2.05	2.05	2.05	2.74	4.11	3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	26	26	26	35	71	1.86	1.86	1.86	2.48	4.95	3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	26	26	26	53	53	1.86	1.86	1.86	3.71	3.71	3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	26	26	35	35	35	2.17	2.17	2.89	2.89	2.89	3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.20	A+	YES
	26	26	35	35	53	1.95	1.95	2.60	2.60	3.90	3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	26	35	35	35	35	2.05	2.74	2.74	2.74	2.74	3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.20	A+	YES
	26	35	35	35	53	1.86	2.48	2.48	2.48	3.71	3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.00	A+	YES
	35	35	35	35	35	2.60	2.60	2.60	2.60	2.60	3.00	13.00	15.50	1.61	3.19	5.00	4.08	4.20	A+	YES

Energy Class = EU Delegated Regulation No. 626/2011 on the new labelling indicating the energy consumption of air conditioners. SCOP = EU Regulation No. 206/2012 - - Value measured according to the harmonized standard EN14825. COP = Value measured according to the harmonized standard EN14511.

* For Italian market only.

R32 COOLING COMBINATIONS WITHOUT DHW TANK



0.1		Comb	inations				Rate	d capacity	(kW)		Total co	ooling capac	ity (kW)	Absor	bed power	r (kW)	FFD	CEED	Energy		Conto
Outdoor units	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min	Nom	Max	Min	Nom	Max	EER	SEER	Class	Bonus casa*	Termico 2.0*
		26	26	-	-	-	2.60	2.60	-	-	2.60	5.20	6.50	1.60	1.90	3.50	2.74	6.10	A++	NO.	-
		26	35	-	-	-	2.60	3.50	-	-	2.60	6.10	7.50	1.60	2.30	3.50	2.65	6.10	A++	NO.	-
		26	53	-	-	-	2.60	5.25	-	-	2.60	7.85	9.00	1.60	2.40	3.50	3.27	6.10	A++	NO	-
		26	71	-	-	-	2.60	7.10	-	-	2.60	9.70	11.00	1.60	2.60	3.60	3.73	6.10	A++	NO	-
		35	35	-	-	-	3.50	3.50	-	-	2.60	7.00	9.20	1.60	2.40	3.50	2.92	6.10	A++	NO	-
		35	53	-	-	-	3.50	5.25	-	-	2.60	8.75	10.00	1.60	2.40	3.50	3.65	6.10	A++	NO	-
		35	71	-	-	-	3.50	7.10	-	-	2.60	10.60	12.00	1.60	2.95	4.60	3.59	6.10	A++	YES	
		53	53	-	-	-	5.25	5.25	-	-	2.60	10.60	12.00	1.60	2.95	4.60	3.59	6.10	A++	YES	-
		53	71	-	-	-	4.54	6.06	-	-	2.60	10.60	12.00	1.60	2.95	4.60	3.59	6.10	A++	YES	-
		71	71	-	-	-	5.30	5.30	-	-	2.60	10.60	12.00	1.60	2.95	4.60	3.59	6.10	A++	YES	-
		26	26	26	-	-	2.60	2.60	2.60	-	2.60	7.80	10.00	1.60	2.40	3.50	3.25	6.10	A++	NO	-
		26	26	35	-	-	2.60	2.60	3.50	-	2.60	8.70	11.00	1.60	2.60	3.60	3.35	6.10	A++	NO.	-
		26	26	53	-	-	2.60	2.60	5.25	-	2.60	10.60	12.00	1.60	2.95	4.60	3.59	6.10	A++	YES	-
		26	26	71	-	-	2.27	2.27	6.06	-	2.60	10.60	12.00	1.60	2.95	4.60	3.59	6.10	A++	YES	-
		26	35	35	-	-	2.60	3.50	3.50	-	2.60	9.60	11.00	1.60	2.60	4.60	3.69	6.10	A++	NO.	-
		26	35	53	-	-	2.45	3.26	4.89	-	2.60	10.60	12.00	1.60	2.95	4.60	3.59	6.10	A++	YES	-
		26	35	71	-	-	2.12	2.83	5.65	-	2.60	10.60	12.00	1.60	2.95	4.60	3.59	6.10	A++	YES	-
		26	53	53	-	-	2.12	4.24	4.24	-	2.60	10.60	12.00	1.60	2.95	4.60	3.59	6.10	A++	YES	-
		26	53	71	-	-	1.87	3.74	4.99	-	2.60	10.60	12.00	1.60	2.95	4.60	3.59	6.10	A++	YES	-
		35	35	35	-	-	3.50	3.50	3.50	-	2.60	10.60	12.00	1.60	2.95	4.60	3.59	7.20	A++	YES	-
		35	35	53	-	-	3.03	3.03	4.54	-	2.60	10.60	12.00	1.60	2.95	4.60	3.59	6.10	A++	YES	-
1161/611111		35	35	71	-	-	2.65	2.65	5.30	-	2.60	10.60	12.00	1.60	2.95	4.60	3.59	6.10	A++	YES	-
MCKGWM 1202 Z4W	Reserved for the	35	53	53	-	-	2.65	3.98	3.98	-	2.60	10.60	12.00	1.60	2.95	4.60	3.59	6.10	A++	YES	-
1202 2411	tank	35	53	71	-	-	2.36	3.53	4.71	-	2.60	10.60	12.00	1.60	2.95	4.60	3.59	6.10	A++	YES	-
		53	53	53	-	-	3.53	3.53	3.53	-	2.60	10.60	12.00	1.60	2.95	4.60	3.59	6.10	A++	YES	-
		53	53	71	-	-	3.63	3.63	4.84	-	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	YES	-
		26	26	26	26	-	2.60	2.60	2.60	2.60	2.60	10.60	13.02	1.60	3.00	4.60	3.53	6.10	A++	YES	-
		26	26	26	35	-	2.60	2.60	2.60	3.50	2.60	11.30	14.11	1.60	3.20	4.60	3.53	6.10	A++	YES	-
		26	26	26	53	-	2.42	2.42	2.42	4.84	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	YES	-
		26	26	26	71	-	2.14	2.14	2.14	5.69	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	YES	-
		26	26	35	35	-	2.59	2.59	3.46	3.46	2.60	12.10	15.20	1.60	3.40	4.60	3.56	7.20	A++	YES	-
		26	26	35	53	-	2.27	2.27	3.03	4.54	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	YES	-
		26	26	35	71	-	2.02	2.02	2.69	5.38	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	YES	-
		26	26	53	53	-	2.02	2.02	4.03	4.03	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	YES	-
		26	26	53	71	-	1.82	1.82	3.63	4.84	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	SI	-
		26	35	35	35	-	2.42	3.23	3.23	3.23	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	YES	-
		26	35	35	53	-	2.14	2.85	2.85	4.27	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	YES	-
		26	35	35	71	-	1.91	2.55	2.55	5.09	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	YES	-
		26	35	53	53	-	1.91	2.55	3.82	3.82	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	YES	-
		26	35	53	71	-	1.73	2.30	3.46	4.61	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	YES	-
		26	53	53	53	-	1.73	3.46	3.46	3.46	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	YES	-
		35	35	35	35	-	3.03	3.03	3.03	3.03	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	YES	-
		35	35	35	53	-	2.69	2.69	2.69	4.03	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	YES	-
		35	35	35	71	-	2.42	2.42	2.42	4.84	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	YES	-
		35	35	53	53	-	2.42	2.42	3.63	3.63	2.60	12.10	15.20	1.60	3.40	4.60	3.56	6.10	A++	YES	-

Energy Class = EU Delegated Regulation No. 626/2011 on the new labelling indicating the energy consumption of air conditioners. SEER = EU Regulation No. 206/2012 - - Value measured according to the harmonized standard EN14825. EER = Value measured according to the harmonized standard EN14511.

* For Italian market only.



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R32 HEATING COMBINATIONS WITHOUT DHW TANK



0.41		Comb	inations				Rate	d capacity	(kW)		Total he	ating capac	ity (kW)	Absoi	bed power	r (kW)	COD	ccon	Energy		Conto
Outdoor units	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min	Nom	Max	Min	Nom	Max	COP	SCOP	Class	Bonus casa*	Termico 2.0*
		26	26	-	-	-	2.80	2.80	-	-	3.00	5.60	7.00	1.61	1.90	3.60	2.95	4.0	A+	NO.	NO
		26	35	-	-	-	2.80	3.80	-	-	3.00	6.60	8.16	1.61	2.30	3.80	2.87	4.0	A+	NO.	NO
		26	53	-	-	-	2.80	5.60	-	-	3.00	8.40	10.50	1.61	2.80	4.20	3.00	4.0	A+	NO	NO
		26	71	-	-	-	2.80	8.20	-	-	3.00	11.00	12.83	1.61	3.04	5.00	3.62	4.0	A+	NO	NO
		35	35	-	-	-	3.80	3.80	-	-	3.00	7.60	9.33	1.61	2.60	4.00	2.92	4.0	A+	NO	NO
		35	53	-	-	-	3.80	5.60	-	-	3.00	9.40	11.66	1.61	2.90	4.80	3.24	4.0	A+	NO	NO
		35	71	-	-	-	3.80	8.20	-	-	3.00	12.00	14.00	1.61	3.20	5.00	3.75	4.0	A+	YES	SI
		53	53	-	-	-	5.60	5.60	-	-	3.00	12.00	14.00	1.61	3.20	5.00	3.75	4.0	A+	YES	YES
		53	71	-	-	-	5.14	6.86	-	-	3.00	12.00	14.00	1.61	3.20	5.00	3.75	4.0	A+	YES	YES
		71	71	-	-	-	6.00	6.00	-	-	3.00	12.00	14.00	1.61	3.20	5.00	3.75	4.0	A+	YES	YES
		26	26	26	-	-	2.80	2.80	2.80	-	3.00	8.40	10.50	1.61	2.80	4.20	3.00	4.0	A+	NO	NO
		26	26	35	-	-	2.80	2.80	3.80	-	3.00	9.40	11.66	1.61	2.90	4.80	3.24	4.0	A+	NO	NO
		26	26	53	-	-	2.80	2.80	5.60	-	3.00	12.00	14.00	1.61	3.20	5.00	3.75	4.0	A+	YES	YES
		26	26	71	-	-	2.57	2.57	6.86	-	3.00	12.00	14.00	1.61	3.20	5.00	3.75	4.0	A+	YES	YES
		26	35	35	-	-	2.80	3.80	3.80	-	3.00	10.40	12.83	1.61	3.04	5.00	3.42	4.0	A+	NO	NO
		26	35	53	-	-	2.77	3.69	5.54	-	3.00	12.00	14.00	1.61	3.20	5.00	3.75	4.0	A+	YES	YES
		26	35	71	-	-	2.40	3.20	6.40	-	3.00	12.00	14.00	1.61	3.20	5.00	3.75	4.0	A+	YES	YES
		26	53	53	-	-	2.40	4.80	4.80	-	3.00	12.00	14.00	1.61	3.20	5.00	3.75	4.0	A+	YES	YES
		26	53	71	-	-	2.12	4.24	5.65	-	3.00	12.00	14.00	1.61	3.20	5.00	3.75	4.0	A+	YES	YES
		35	35	35	-	-	3.80	3.80	3.80	-	3.00	12.00	14.00	1.61	3.20	5.00	3.75	4.2	A+	YES	YES
		35	35	53	-	-	3.43	3.43	5.14	-	3.00	12.00	14.00	1.61	3.20	5.00	3.75	4.2	A+	YES	YES
MCKCMM	D	35	35	71	-	-	3.00	3.00	6.00	-	3.00	12.00	14.00	1.61	3.20	5.00	3.75	4.2	A+	YES	YES
MCKGWM 1202 Z4W	Reserved for the tank	35	53	53	-	-	3.00	4.50	4.50	-	3.00	12.00	14.00	1.61	3.20	5.00	3.75	4.2	A+	YES	YES
1202 2711	tank	35	53	71	-	-	2.67	4.00	5.33	-	3.00	12.00	14.00	1.61	3.20	5.00	3.75	4.2	A+	YES	YES
		53	53	53	-	-	4.00	4.00	4.00	-	3.00	12.00	14.00	1.61	3.20	5.00	3.75	4.2	A+	YES	YES
		53	53	71	-	-	3.90	3.90	5.20	-	3.00	13.00	15.50	1.61	3.35	5.00	3.88	4.0	A+	YES	YES
		26	26	26	26	-	2.80	2.80	2.80	2.80	3.00	12.00	14.00	1.61	3.20	4.80	3.75	4.1	A+	YES	YES
		26	26	26	35	-	2.80	2.80	2.80	3.80	3.00	12.50	14.39	1.61	3.20	5.00	3.91	4.1	A+	YES	YES
		26	26	26	53	-	2.60	2.60	2.60	5.20	3.00	13.00	15.50	1.61	3.35	5.00	3.88	4.1	A+	YES	YES
		26	26	26	71	-	2.29	2.29	2.29	6.12	3.00	13.00	15.50	1.61	3.35	5.00	3.88	4.1	A+	YES	YES
		26	26	35	35	-	2.79	2.79	3.71	3.71	3.00	13.00	15.50	1.61	3.35	5.00	3.88	4.1	A+	YES	YES
		26	26	35	53	-	2.44	2.44	3.25	4.88	3.00	13.00	15.50	1.61	3.35	5.00	3.88	4.1	A+	YES	YES
		26	26	35	71	-	2.17	2.17	2.89	5.78	3.00	13.00	15.50	1.61	3.35	5.00	3.88	4.1	A+	YES	YES
		26	26	53	53	-	2.17	2.17	4.33	4.33	3.00	13.00	15.50	1.61	3.35	5.00	3.88	4.1	A+	YES	YES
		26	26	53	71	-	1.95	1.95	3.90	5.20	3.00	13.00	15.50	1.61	3.35	5.00	3.88	4.1	A+	YES	YES
		26	35	35	35	-	2.60	3.47	3.47	3.47	3.00	13.00	15.50	1.61	3.35	5.00	3.88	4.1	A+	YES	YES
		26	35	35	53	-	2.29	3.06	3.06	4.59	3.00	13.00	15.50	1.61	3.35	5.00	3.88	4.1	A+	YES	YES
		26	35	35	71	-	2.05	2.74	2.74	5.47	3.00	13.00	15.50	1.61	3.35	5.00	3.88	4.1	A+	YES	YES
		26	35	53	53	-	2.05	2.74	4.11	4.11	3.00	13.00	15.50	1.61	3.35	5.00	3.88	4.1	A+	YES	YES
		26	35	53	71	-	1.86	2.48	3.71	4.95	3.00	13.00	15.50	1.61	3.35	5.00	3.88	4.1	A+	YES	YES
		26	53	53	53	-	1.86	3.71	3.71	3.71	3.00	13.00	15.50	1.61	3.35	5.00	3.88	4.1	A+	YES	YES
		35	35	35	35	-	3.25	3.25	3.25	3.25	3.00	13.00	15.50	1.61	3.35	5.00	3.88	4.1	A+	YES	YES
		35	35	35	53	-	2.89	2.89	2.89	4.33	3.00	13.00	15.50	1.61	3.35	5.00	3.88	4.1	A+	YES	YES
		35	35	35	71	-	2.60	2.60	2.60	5.20	3.00	13.00	15.50	1.61	3.35	5.00	3.88	4.1	A+	YES	YES
		35	35	53	53	-	2.60	2.60	3.90	3.90	3.00	13.00	15.50	1.61	3.35	5.00	3.88	4.1	A+	YES	YES

Energy Class = EU Delegated Regulation No. 626/2011 on the new labelling indicating the energy consumption of air conditioners. SCOP = EU Regulation No. 206/2012 - - Value measured according to the harmonized standard EN14825. COP = Value measured according to the harmonized standard EN14511.

* For Italian market only.





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R32 COOLING COMBINATIONS WITH DHW TANK



0.11		Comb	inations				Rate	d capacity	(kW)		Tota	l DHW yield	(kW)	Total cool	ling perform	ance (kW)	Abso	rbed power	r (kW)
Outdoor units	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max
		26	-	-	-	4.20	2.60	-	-	-	2.20	4.20	4.60	2.20	2.60	3.00	1.60	2.30	3.50
		35	-	-	-	4.20	3.50	-	-	-	2.20	4.20	4.60	2.20	3.50	4.00	1.60	2.40	3.50
		53	-	-	-	4.20	5.25	-	-	-	2.20	4.20	4.60	2.20	5.25	5.80	1.60	2.40	3.50
		71	-	-	-	4.20	7.10	-	-	-	2.20	4.20	4.60	2.20	7.10	8.80	1.60	3.00	4.60
		26	35	-	-	4.20	2.60	3.50	-	-	2.20	4.20	4.60	2.60	6.10	7.50	1.60	3.10	6.10
		26	53	-	-	4.20	2.60	5.25	-	-	2.20	4.20	4.60	2.60	7.85	9.00	1.60	3.40	6.10
		26	71	-	-	4.20	2.60	7.10	-	-	2.20	4.20	4.60	2.60	9.70	11.00	1.60	4.20	6.10
		35	35	-	-	4.20	3.50	3.50	-	-	2.20	4.20	4.60	2.60	7.00	9.20	1.60	3.20	6.10
		35	53	-	-	4.20	3.50	5.25	-	-	2.20	4.20	4.60	2.60	8.75	10.00	1.60	3.80	6.10
		35	71	-	-	4.20	3.50	7.10	-	-	2.20	4.20	4.60	2.60	10.60	12.00	1.60	4.20	6.10
		53	53	-	-	4.20	5.25	5.25	-	-	2.20	4.20	4.60	2.60	10.50	12.00	1.60	4.20	6.10
		53	71	-	-	4.20	5.19	6.91	-	-	2.20	4.20	4.60	2.60	12.10	12.00	1.60	4.20	6.10
		26	26	26	-	4.20	2.60	2.60	2.60	-	2.20	4.20	4.60	2.60	7.80	10.00	1.60	3.60	6.10
		26	26	35	-	4.20	2.60	2.60	3.50	-	2.20	4.20	4.60	2.60	8.70	11.00	1.60	4.20	6.10
		26	26	53	-	4.20	2.60	2.60	5.25	-	2.20	4.20	4.60	2.60	10.45	13.02	1.60	3.80	6.10
		26	26	71	-	4.20	2.59	2.59	6.91	-	2.20	4.20	4.60	2.60	12.10	15.20	1.60	4.20	6.10
MCKGWM	MWTGM	26	35	35	-	4.20	2.60	3.50	3.50	-	2.20	4.20	4.60	2.60	9.60	11.94	1.60	3.80	6.10
1202 Z4W	200 Z4W	26	35	53	-	4.20	2.60	3.50	5.25	-	2.20	4.20	4.60	2.60	11.35	14.11	1.60	4.20	6.10
		26	35	71	-	4.20	2.42	3.23	6.45	-	2.20	4.20	4.60	2.60	12.10	15.20	1.60	4.20	6.10
		26	53	53	-	4.20	2.42	4.84	4.84	-	2.20	4.20	4.60	2.60	12.10	15.20	1.60	4.20	6.10
		26	53	71	-	4.20	2.14	4.27	5.69	-	2.20	4.20	4.60	2.60	12.10	15.20	1.60	4.20	6.10
		35	35	35	-	4.20	3.50	3.50	3.50	-	2.20	4.20	4.60	2.60	10.50	13.02	1.60	3.80	6.10
		35	35	53	-	4.20	3.46	3.46	5.19	-	2.20	4.20	4.60	2.60	12.10	15.20	1.60	4.20	6.10
		35	35	71	-	4.20	3.03	3.03	6.05	-	2.20	4.20	4.60	2.60	12.10	15.20	1.60	4.20	6.10
		35	53	53	-	4.20	3.03	4.54	4.54	-	2.20	4.20	4.60	2.60	12.10	15.20	1.60	4.20	6.10
		26	26	26	26	4.20	2.60	2.60	2.60	2.60	2.20	4.20	4.60	2.60	10.40	13.02	1.60	4.20	6.10
		26	26	26	35	4.20	2.60	2.60	2.60	3.50	2.20	4.20	4.60	2.60	11.30	14.11	1.60	4.20	6.10
		26	26	26	53	4.20	2.42	2.42	2.42	4.84	2.20	4.20	4.60	2.60	12.10	15.20	1.60	4.20	6.10
		26	26	26	71	4.20	2.14	2.14	2.14	5.69	2.20	4.20	4.60	2.60	12.10	15.20	1.60	4.20	6.10
		26	26	35	35	4.20	2.59	2.59	3.46	3.46	2.20	4.20	4.60	2.60	12.10	15.20	1.60	4.20	6.10
		26	26	35	53	4.20	2.27	2.27	3.03	4.54	2.20	4.20	4.60	2.60	12.10	15.20	1.60	4.20	6.10
		26	35	35	35	4.20	2.42	3.23	3.23	3.23	2.20	4.20	4.60	2.60	12.10	15.20	1.60	4.20	6.10
		26	35	35	53	4.20	2.14	2.85	2.85	4.27	2.20	4.20	4.60	2.60	12.10	15.20	1.60	4.20	6.10
		35	35	35	35	4.20	3.03	3.03	3.03	3.03	2.20	4.20	4.60	2.60	12.10	15.20	1.60	4.20	6.10



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R32 HEATING COMBINATIONS WITH DHW TANK



Outdoorunito		Comb	inations				Rate	d capacity	(kW)		Tota	I DHW yield	(kW)	Total he	ating capac	ity (kW)	Abso	rbed power	r (kW)
Outdoor units	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max
		26	-	-	-	4.20	2.80	-	-	-	2.20	4.20	4.60	2.60	2.80	3.20	1.61	2.30	3.80
		35	-	-	-	4.20	3.80	-	-	-	2.20	4.20	4.60	3.00	3.80	4.00	1.61	2.60	4.00
		53	-	-	-	4.20	5.60	-	-	-	2.20	4.20	4.60	3.00	5.60	6.00	1.61	2.90	4.80
		71	-	-	-	4.20	8.20	-	-	-	2.20	4.20	4.60	3.00	8.20	9.00	1.61	3.04	5.00
		26	35	-	-	4.20	2.80	3.80	-	-	2.20	4.20	4.60	3.00	6.60	7.75	1.61	3.10	5.70
		26	53	-	-	4.20	2.80	5.60	-	-	2.20	4.20	4.60	3.00	8.40	9.96	1.61	3.40	6.00
		26	71	-	-	3.59	2.39	7.01	-	-	2.20	3.59	4.60	3.00	9.41	12.17	1.61	3.60	6.00
		35	35	-	-	4.20	3.80	3.80	-	-	2.20	4.20	4.60	3.00	7.60	8.85	1.61	3.40	6.00
		35	53	-	-	4.01	3.63	5.35	-	-	2.20	4.01	4.60	3.00	8.99	11.07	1.61	3.60	6.00
		35	71	-	-	3.37	3.05	6.58	-	-	2.20	3.37	4.60	3.00	9.63	13.28	1.61	3.60	6.00
		53	53	-	-	3.55	4.73	4.73	-	-	2.20	3.55	4.60	3.00	9.45	13.28	1.61	3.60	6.00
		53	71	-	-	3.17	4.21	5.61	-	-	2.20	3.17	4.60	3.00	9.83	15.50	1.61	3.99	6.50
		26	26	26	-	4.20	2.80	2.80	2.80	-	2.20	4.20	4.60	3.00	8.40	9.96	1.61	3.40	6.00
		26	26	35	-	4.01	2.68	2.68	3.63	-	2.20	4.01	4.60	3.00	8.99	11.07	1.61	3.60	6.00
		26	26	53	-	3.55	2.36	2.36	4.73	-	2.20	3.55	4.60	3.00	9.45	13.28	1.61	3.60	6.00
		26	26	71	-	3.17	2.11	2.11	5.61	-	2.20	3.17	4.60	3.00	9.83	15.50	1.61	3.99	6.50
MCKGWM	MWTGM	26	35	35	-	3.74	2.49	3.38	3.38	-	2.20	3.74	4.60	3.00	9.26	12.17	1.61	3.60	6.00
1202 Z4W	200 Z4W	26	35	53	-	3.33	2.22	3.01	4.44	-	2.20	3.33	4.60	3.00	9.67	14.39	1.61	3.99	6.50
		26	35	71	-	3.17	1.97	2.62	5.24	-	2.20	3.17	4.60	3.00	9.83	15.50	1.61	3.99	6.50
		26	53	53	-	3.17	1.97	3.93	3.93	-	2.20	3.17	4.60	3.00	9.83	15.50	1.61	3.99	6.50
		26	53	71	-	3.17	1.73	3.47	4.62	-	2.20	3.17	4.60	3.00	9.83	15.50	1.61	3.99	6.50
		35	35	35	-	3.50	3.17	3.17	3.17	-	2.20	3.50	4.60	3.00	9.50	13.28	1.61	3.60	6.00
		35	35	53	-	3.17	2.81	2.81	4.21	-	2.20	3.17	4.60	3.00	9.83	15.50	1.61	3.99	6.50
		35	35	71	-	3.17	2.46	2.46	4.91	-	2.20	3.17	4.60	3.00	9.83	15.50	1.61	3.99	6.50
		35	53	53	-	3.17	2.46	3.68	3.68	-	2.20	3.17	4.60	3.00	9.83	15.50	1.61	3.99	6.50
		26	26	26	26	3.55	2.36	2.36	2.36	2.36	2.20	3.55	4.60	3.00	9.45	14.00	1.61	3.80	6.30
		26	26	26	35	3.33	2.22	2.22	2.22	3.01	2.20	3.33	4.60	3.00	9.67	14.39	1.61	3.99	6.50
		26	26	26	53	3.17	1.97	1.97	1.97	3.93	2.20	3.17	4.60	3.00	9.83	15.50	1.61	3.99	6.50
		26	26	26	71	3.17	1.73	1.73	1.73	4.62	2.20	3.17	4.60	3.00	9.83	15.50	1.61	3.99	6.50
		26	26	35	35	3.17	2.11	2.11	2.81	2.81	2.20	3.17	4.60	3.00	9.83	15.50	1.61	3.99	6.50
		26	26	35	53	3.17	1.84	1.84	2.46	3.68	2.20	3.17	4.60	3.00	9.83	15.50	1.61	3.99	6.50
		26	35	35	35	3.17	1.97	2.62	2.62	2.62	2.20	3.17	4.60	3.00	9.83	15.50	1.61	3.99	6.50
		26	35	35	53	3.17	1.73	2.31	2.31	3.47	2.20	3.17	4.60	3.00	9.83	15.50	1.61	3.99	6.50
		35	35	35	35	3.17	2.46	2.46	2.46	2.46	2.20	3.17	4.60	3.00	9.83	15.50	1.61	3.99	6.50







MW MINI SYSTEM

COMPACT OUTDOOR UNITS



10.00 kW	12.10 kW	14.10 kW
1-Phase	1-Phase	1-Phase
M-VMC-OV-100-NG	M-VMC-OV-121-NG	M-VMC-OV-141-NG

SLIM OUTDOOR UNITS



16.00 kW	22.40 kW	28.00 kW	33.50 kW
3-Phase	3-Phase	3-Phase	3-Phase
M-VM-OV-160-SG	M-VS-OV-224-SG	M-VS-OV-280-SG	M-VS-OV-335-SG

INDOOR UNITS

Applicable indoor units for air-to-air operation on page 101



MW MINI COMPACT & SLIM IS COMPOSED OF 7 SINGLE OUTDOOR UNITS TO WHICH MAX 20 INDOOR UNITS CAN BE CONNECTED

1-PHASE, SINGLE FAN: 3 MODELS

The 1-Phase outdoor units with horizontal air discharge are available in 10.00 kW, 12.10 kW and 14.10 kW models.

All the compressors of the 1-Phase models are Rotary DC Inverter and Inverter fans.

3-PHASE, DOUBLE FAN: 4 MODELS

The 3-Phase outdoor units with horizontal air discharge are available in 16.00 kW, 22.40 kW, 28.00 kW and 33.50 kW models.

Rotary DC Inverter compressor for the 16.00 kW and 22.40 kW models. Scroll Inverter compressor for the 28.00 kW and 33.50 kW models.

CAPACITY AND NUMBER OF CONNECTABLE INDOOR UNITS

Modello	Min~Max power of connectable I.U.	Min~Max number of connectable I.U.	Conto Termico 2.0	Ecobonus
M-VMC-OV-100-NG	50~135%	1~5	/	/
M-VMC-OV-121-NG	50~135%	1~6	/	/
M-VMC-OV-141-NG	50~135%	1~8	/	/
M-VM-OV-160-SG	50~135%	1~9	/	/
M-VS-OV-224-SG	50~135%	1~13	/	/
M-VS-OV-280-SG	50~135%	1~17	~	/
M-VS-OV-335-SG	50~135%	1~20	✓	✓

OPERATING RANGE

up to

52°C
in cooling



MAXIMUM COMPACTNESS FOR ALL OUTDOOR UNITS

COMPACT 10.00 - 12.10 - 14.10 kW

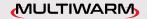


L 980 x H 790 x D 360 (mm) 10~12.1 kW L 940 x H 820 x D 460 (mm) 14.1 kW



SLIM 16.00 - 22.40 - 28.00 - 33.50 kW





COMPACT OUTDOOR UNITS

3 REFRIGERANT CAPACITIES

10.00 - 12.10 - 14.10 kW

R410A

Refrigerant gas

GOLD FIN PROTECTION

USE IN SINGLE MODE

(not in combination)

COMPACT DESIGN

COOLING OPERATING RANGE

-5~+52° C

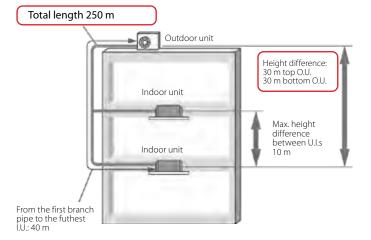
HEATING OPERATING RANGE

-20~+27° C



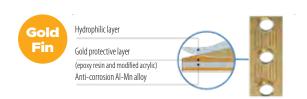
M-VMC-OV-100-NG M-VMC-OV-121-NG M-VMC-OV-141-NG

Model			M-VMC-OV-100-NG	M-VMC-OV-121-NG	M-VMC-OV-141-NG		
Nominal Data							
Rated capacity		kW	10.00	12.10	14.10		
Nominal absorbed power	Cooling	kW	2.70	3.50	3.92		
Energy efficiency coefficient (nominal)		EER1	3.70	3.51	3.60		
Rated capacity		kW	11.00	13.00	16.00		
Nominal absorbed power	Heating	kW	2.50	2.70	4.16		
Energy performance coefficient (nominal)		COP1	4.40	4.81	3.85		
Seasonal Data							
Seasonal energy efficiency index	Cooling	SEER2	6.60	7.28	6.76		
Seasonal energy eniciency muex	Heating	SCOP2	3.80	4.45	3.67		
Electrical Data							
Power supply		Ph-V-Hz	1-220~240V-50Hz				
Maximum current		A	22.40	24.00	35.80		
Refrigerant Circuit Data							
Refrigerant ³		type (GWP)	R410A (2088)				
Q.ty of refrigerant pre-charge 4 (tons of CO2 e	quivalent)	Kg	1.8 (3.76)	2 (4.18)	3.3 (6.89)		
Compressor		nb. / type	1 / Rotary DC Inverter				
Piping diameter	Liquid	mm (inch)	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")		
riping diameter	Gas	mm (inch)	15.9 (5/8")	15.9 (5/8")	15.9 (5/8")		
Product Specifications							
Dimensions	WxHxD	mm	980x790x360	980x790x360	940x820x460		
Net weight		Kg	80	85	98		
Sound power level	max	dB(A)	69	70	73		
Sound pressure level at 1 m	max	dB(A)	=	-	=		
Volume of air treated	max	m ³ /h	4000	4400	5200		
Operating range (outdoor temperature)	Cooling	°C	-5~52	-5~52	-5~52		
	Heating	%	-20~27	-20~27	-20~27		
Connectable indoor units (min - max)		nb.	1-5	1-6	1-8		
Capacity of connectable indoor units		%		50 ~ 135			



ALUMINIUM LOUVERS WITH ANTI-CORROSION COATING (GOLD FIN)

The louvers' coating lasts over time and ensures greater resistance to salt corrosion.





^{1.} Value measured according to the harmonized standard EN14511.
2. EU Regulation No. 206/2012 - Value measured according to the harmonized standard EN14825.
3. Refrigerant leakage contributes to climate change. If 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 2088. If 1 kg of this refrigerant were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher 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. If necessary, always contact qualified personnel.
4. To calculate the additional refrigerant charge, refer to the labels located inside and outside the unit.

SLIM OUTDOOR UNITS

4 REFRIGERANT CAPACITIES

16.00 - 22.40 - 28.00 -33.50 kW

USE IN SINGLE MODE

GOLD FIN PROTECTION

(not in combination)

COMPACT DESIGN

COOLING OPERATING RANGE

-5~+52° C

HEATING OPERATION RANGE

-20~+27° C

R410A

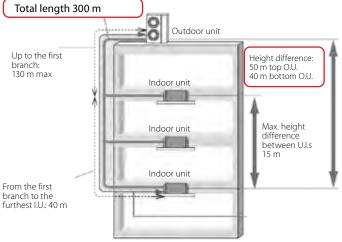
Refrigerant gas



M-VM-OV-160-SG M-VS-OV-224-SG M-VS-OV-280-SG M-VS-OV-335-SG

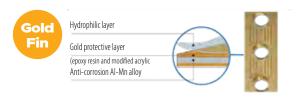
Model			M-VM-OV-160-SG	M-VS-OV-224-SG	M-VS-OV-280-SG	M-VS-OV-335-SG		
Dati Nominali								
Rated capacity		kW	16.00	22.40	28.00	33.50		
Nominal absorbed power	Cooling	kW	4.75	6.12	7.78	9.57		
Energy efficiency coefficient (nominal)		EER1	3.37	3.66	3.60	3.50		
Rated capacity		kW	18.00	24.00	30.00	35.00		
Nominal absorbed power	Heating	kW	4.65	4.90	6.12	7.14		
Energy performance coefficient (nominal)		COP1	3.87	4.90	4.90	4.90		
Seasonal Data								
Casasal anaray offician aviaday	Cooling	SEER2	6.96	7.27	6.98	7.10		
Seasonal energy efficiency index	Heating	SCOP2	4.04	4.08	3.92	4.06		
Electrical Data	•							
Power supply		Ph-V-Hz		3-380~415V-50Hz				
Maximum current		A	12.50	17.20	2.40	24.50		
Refrigerant Circuit Data								
Refrigerant ³		type (GWP)	R410A (2088)					
Q.ty of refrigerant pre-charge 4 (tons of CO2 e	quivalent)	Kg	3.3 (6.89)	5.5 (11.48)	7.1 (14.82)	8 (16.7)		
Compressor	•	nb. / type	1 / Rotary DC Inverter		1 / Scroll DC Inverter			
Dining diameter	Liquid	mm (inch)	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	12.7 (1/2")		
Piping diameter	Gas	mm (inch)	19.05 (3/4")	19.05 (3/4")	22.2 (7/8")	25.4 (1")		
Product Specifications								
Dimensions	WxHxD	mm	900x1345x340	940x1430x320	940x1615x460	940x1615x460		
Net weight		Kg	122	133	166	177		
Sound power level	max	dB(A)	69	74	74	76		
Sound pressure level at 1 m	max	dB(A)	-	-	-	-		
Volume of air treated	max	m ³ /h	6000	8000	11000	11000		
	Cooling	°C	-5~52	-5~52	-5~52	-5~52		
Operating range (outdoor temperature)	Heating	°C	-20~27	-20~27	-20~27	-20~27		
Connectable indoor units (min - max)		nb.	1-9	1 - 13	1 - 17	1 - 20		
Capacity of connectable indoor units		%		50 ~	135			

4. To calculate the additional refrigerant charge, refer to the labels located inside and outside the unit.



ALUMINIUM LOUVERS WITH ANTI-CORROSION COATING (GOLD FIN)

The louvers' coating lasts over time and ensures greater resistance to salt corrosion.





^{1.} Value measured according to the harmonized standard EN14511.

2. EU Regulation No. 206/2012 - - Value measured according to the harmonized standard EN14825.

3. Refrigerant leakage contributes to climate change. If 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 2088. If 1 kg of this refrigerant were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user attempt to intervene on the refrigerant circum of disassemble the product. If necessary, always contact qualified personnel.

THE MW 2-PIPE SYSTEM ANTI-CORROSION IN INDIVIDUAL OR MODULAR USE

OUTDOOR UNITS



22.40 kW	28.00 kW	33.50 kW
8HP	10HP	12HP
M-VA-OV-224-SG	M-VA-OV-280-SG	M-VA-OV-335-SG



40.00 kW	45.00 kW	50.40 kW	56.00 kW	61.50 kW
14HP	16HP	18HP	20HP	22HP
M-VA-OV-400-SG	M-VA-OV-450-SG	M-VA-OV-500-SG	M-VA-OV-560-SG	M-VA-OV-615-SG

INDOOR UNITS

Applicable indoor units for air-to-air operation on page 101



THE MW 2-PIPE ANTI-CORROSION CONSISTS OF 8 INDIVIDUAL OUTDOOR UNITS. IN COMBINATION IT REACHES A MAXIMUM OUTPUT OF 246 KW TO WHICH UP TO 80 INDOOR UNITS CAN BE CONNECTED

8 THREE-PHASE MODELS

The 3-phase outdoor units with vertical air discharge are available in models from 22.40 kW up to 61.50 kW. The maximum power of the combined outdoor units reaches 246 kW, the highest value in the industry.

All compressors of the 3-Phase models are Scroll DC Inverter. The MW 2-PIPE ANTI-CORROSION system can connect up to a maximum of 80 indoor units.

POWER AND NUMBER OF CONNECTABLE INDOOR UNITS

Model	Min~Max power of connectable I.U.	Min~Max number of connectable I.U.	Conto Termico 2.0	Ecobonus
M-VA-OV-224-SG	50~135%	1~13	/	/
M-VA-OV-280-SG	50~135%	1~16	/	/
M-VA-OV-335-SG	50~135%	1~19	~	/
M-VA-OV-400-SG	50~135%	1~23	/	/
M-VA-OV-450-SG	50~135%	1~26	~	/
M-VA-OV-500-SG	50~135%	1~29	V	/
M-VA-OV-560-SG	50~135%	1~33	~	/
M-VA-OV-615-SG	50~135%	1~36	/	/

MAXIMUM COMPACTNESS FOR ALL OUTDOOR UNITS

22.40 - 28.00 - 33.50 kW



L 930 x H 1690 x D 775 (mm)

40.00 - 45.00 - 50.40 - 56.00 - 61.50 kW



L 1340 x H 1690 x D 775 (mm)



SPECIAL ANTI-CORROSION TREATMENT

With the special anti-corrosion treatment of the outdoor units, the application possibilities are increased, especially in coastal areas where the air is richer in salt and humidity, and in industrial areas where high concentrations of chemical substances are present.

The test carried out with neutral salt spray (H) found effective increases in performance compared to untreated models.



GRILLES

The grillles receive a phosphating and electrophoresis treatment and are coated with highly weather-resistant powder.

+100% anti-corrosion capacity compared to a standard model.

ZINC- NICKEL FASTENERS

The body uses zinc-nickel alloy screws to improve anti-corrosion performance. These screws withstand neutral salt spray test for 500 hours without rusting.

+400% anti-corrosion capacity compared to normal galvanized screws.



GAS-LIQUID SEPARATOR

The surface of the pressure vessel adopts phosphorizing treatment and is coated with high weather-resistant powder.

+ 400% anti-corrosion capacity compared to a standard model..

PRINTED CIRCUIT BOARD

The surface of the controller is coated with a special protective material, acting against humidity, mold and corrosion.

+ 400% anti-corrosion capacity compared to a standard model..

BODY

The surface of the roofing sheet metal is treated with highly weather-resistant powder.

+ 100% anti-corrosion capacity compared to a standard model..

HEAT EXCHANGER

The heat exchanger features black aluminum fins that are resistant to acids and corrosion. State-of-the-art anti-corrosion treatment.

+33% anti-corrosion capacity compared to a standard model..



FXCFLLENT PERFORMANCE

The MW 2-PIPE ANTI-CORROSION systems are characterised by high installation flexibility, thanks to the possibility of connecting internal units of different types.

The wide range of outdoor units in terms of power, modularity and dimensions also allows you to choose the optimal solution capable of meeting the requirements of occupied space, weight and handling in each application.

Possibility of using classic heat recovery units (ERV), or combined with post-treatment batteries (ERV+DX), for the introduction of renewal air. The recovery units are equipped with high efficiency filters.

Through centralized controls, Wi-Fi interfaces and multiple protocol gateways, it is possible to manage large systems remotely and from a single terminal.





ENERGY EFFICIENCY

- High efficiency low temperature enthalpy addition technology.
- > New heat exchanger design.
- > Smart control.
- Intelligent cooling and heating technology.
- Noise control technology.

RELIABLE AND STABLE

- Multiple corrosion protection.
- > CAN+communication technology.
- Multiple safety protection.
- > Self-adapting drive control technology.
- Oil quality control technology.
- Oil circuit management technology.
- > Compact structure.
- > Very wide operating range: thanks to its modularity, the system can be adapted to the power required by different installations.

ADAPTABLE AND FLEXIBLE

- Compact design.
- > Fan static pressure: up to 110 Pa, the highest on the market.
- Very high splitting limits and height difference between units: make the system adaptable to various types of installation.
- > Fast installation.
- > High degree of installation adaptability.



Operating ranges of outdoor units

The **MW 2-PIPE ANTI-CORROSION** system features a very wide external temperature operating range, ensuring new design flexibility.

up to

55°C





COOLING MODE

Outdoor temperature from -15° to 55° C



HEATING MODE

Outdoor temperature from -30° to 24° C



OUTDOOR UNITS

3 REFRIGERANT CAPACITIES

22.40 - 28.00 - 33.50 kW

R410A

Refrigerant gas



DC Inverter compressors guarantee total reliability thanks to high energy efficiency and silence. In addition, they allow a reduction in vibrations and accurate control of the operating frequency.

OPERATION RANGE

55 -15 -30 Very wide operating limits: winter operation up to -30° C of outdoor air and summer operation up to +55° C.

M-VA-OV-224-SG M-VA-OV-280-SG M-VA-OV-335-SG

Model			M-VA-OV-224-SG	M-VA-OV-280-SG	M-VA-OV-335-SG		
Power		HP	8	10	12		
Nominal Data							
Rated capacity		kW	22.40	28.00	33.50		
Nominal absorbed power	Cooling	kW	4.99	6.26	8.00		
Energy efficiency coefficient (nominal)		EER1	4.49	4.47	4.19		
Rated capacity		kW	25.00	31.50	37.50		
Nominal absorbed power	Heating	kW	4.85	7.39	8.68		
Energy performance coefficient (nominal)		COP1	5.15	4.26	4.32		
Seasonal Data							
Casasas an army officiana, in day	Cooling	SEER2	7.10	6.59	6.31		
Seasonal energy efficiency index	Heating	SCOP2	4.62	4.80	4.40		
Electrical Data							
Power supply		Ph-V-Hz	3-380~415V-50Hz				
Maximum current		A	23.00	23.50	24.10		
Refrigerant Circuit Data							
Refrigerant3		type (GWP)	R410A (2088)				
Q.ty of refrigerant pre-charge 4 (tons of CO2 ed	quivalent)	Kg	5.5 (11.48) 5.5 (11.48)		7.5 (15.66)		
Compressor		nb. / type	1 / Scroll DC Inverter				
Dining diameter	Liquid	mm (inch)	9.52 (3/8")	9.52 (3/8")	12.7 (1/2")		
Piping diameter	Gas	mm (inch)	19.05 (3/4")	22.2 (7/8")	25.4 (1")		
Product Specifications							
Dimensions	WxHxD	mm	930x1690x775	930x1690x775	930x1690x775		
Net weight		Kg	220	220	240		
Sound power level	max	dB(A)	82	86	86		
Sound pressure level at 1 m	max	dB(A)	56	57	59		
Volume of air treated	max	m³/h	9750	10500	11100		
Available static pressure	std/max	Pa	0/110	0/110	0/110		
Operating range (outdoor temperature)	Cooling	°C	-15~55	-15~55	-15~55		
Operating range (outdoor temperature)	Heating	°C	-30~24	-30~24	-30~24		
Connectable indoor units (max)		nb.	13	16	19		
Capacity of connectable indoor units		%		50 ~ 135			



^{1.} Value measured according to the harmonized standard EN14511.

2. EU Regulation No. 206/2012 - Value measured according to the harmonized standard EN14825.

3. Refrigerant leakage contributes to climate change. If 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 2088. If 1 kg of this refrigerant were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher 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. If necessary, always contact qualified personnel.

4. To calculate the additional refrigerant charge, refer to the labels located inside and outside the unit.

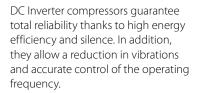
OUTDOOR UNITS

5 REFRIGERANT CAPACITIES

40.00 - 45.00 - 50.40 - 56.00 - 61.50 kW

R410A

Refrigerant gas





OPERATION RANGE

55 -15 -30 Very wide operating limits: winter operation up to -30° C of external air and summer operation up to +55° Cna ed estivo fino a +55° C.

M-VA-OV-400-SG M-VA-OV-450-SG M-VA-OV-500-SG M-VA-OV-560-SG M-VA-OV-615-SG

Model			M-VA-OV-400-SG	M-VA-OV-450-SG	M-VA-OV-500-SG	M-VA-OV-560-SG	M-VA-OV-615-SG		
Power		HP	14	16	18	20	22		
Nominal Data									
Rated capacity		kW	40.00	45.00	50.40	56.00	61.50		
Nominal absorbed power	Cooling	kW	9.52	11.87	12.76	15.47	17.47		
Energy efficiency coefficient (nominal)		EER1	4.20	3.79	3.95	3.62	3.52		
Capacità nominale		kW	45.00	50.00	56.50	63.00	69.00		
Nominal absorbed power	Heating	kW	11.17	12.99	13.92	15.56	17.60		
Energy performance coefficient (nominal)		COP1	4.03	3.85	4.06	4.05	3.92		
Seasonal Data									
Casanal anarroy offician sociados	Cooling	SEER2	6.68	6.17	6.06	5.97	5.97		
Seasonal energy efficiency index	Heating	SCOP2	4.80	4.84	4.19	4.11	4.11		
Electrical Data	·								
Power supply		Ph-V-Hz	3-380~415V-50Hz						
Maximum current A		A	37.50	39.30	47.00	48.00	49.00		
Refrigerant Circuit Data									
Refrigerant3		type (GWP)			R410A (2088)				
Q.ty of refrigerant pre-charge 4 (tons of CO2 eq	uivalent)	Kg	7.5 (15.66)	7.5 (15.66)	8.3 (17.33)	8.3 (17.33)	8.3 (17.33)		
Compressor		nb. / type	1 / Scroll I	DC Inverter	2 / Scroll DC Inverter				
Dining diameter	Liquid	mm (inch)	12.7 (1/2")	12.7 (1/2")	15.9 (5/8")	15.9 (5/8")	15.9 (5/8")		
Piping diameter	Gas	mm (inch)	25.4 (1")	28.6 (1-1/8")	28.6 (1-1/8")	28.6 (1-1/8")	28.6 (1-1/8")		
Product Specifications									
Dimensions	WxHxD	mm	1340x1690x775	1340x1690x775	1340x1690x775	1340x1690x775	1340x1690x775		
Net weight		Kg	300	300	350	350	355		
Sound power level	max	dB(A)	90	93	93	94	94		
Sound pressure level at 1 m	max	dB(A)	59	60	61	62	63		
Volume of air treated	max	m ³ /h	13500	15400	16000	16500	16500		
Available static pressure	std/max	Pa	0/110	0/110	0/110	0/110	0/110		
On exating a constant (a state on terms a contract)	Cooling	°C	-15~55	-15~55	-15~55	-15~55	-15~55		
Operating range (outdoor temperature)	Heating	°C	-30~24	-30~24	-30~24	-30~24	-30~24		
Connectable indoor units (max)		nb.	23	26	29	33	36		
Capacity of connectable indoor units		%			50 ~ 135				



^{1.} Value measured according to the harmonized standard EN14511.
2. EU Regulation No. 206/2012 - - Value measured according to the harmonized standard EN14825.
3. Refrigerant leakage contributes to climate change. If 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 2088. If 1 kg of this refrigerant twee released into the atmosphere, therefore, the impact on global warming would be 2088 times higher 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. If necessary, always contact qualified personnel.
4. To calculate the additional refrigerant charge, refer to the labels located inside and outside the unit.

Model			M-VA-OV-680-SG	M-VA-OV-730-SG	M-VA-OV-785-SG	M-VA-OV-850-SG		
Power		HP	24	26	28	30		
Combination			280+400	280+450	280+500	280+560		
Rated capacity		kW	68.00	73.00	78.40	84.00		
Nominal absorbed power	Cooling	kW	15.79	18.14	19.02	21.73		
Energy efficiency coefficient (nominal)		EER1	4.31	4.02	4.12	3.86		
Rated capacity		kW	76.50	81.50	88.00	94.50		
Nominal absorbed power	Heating	kW	18.56	20.38	21.31	22.95		
Energy performance coefficient (nominal)		COP1	4.12	4.00	4.13	4.12		
Electrical Data								
Power supply		Ph-V-Hz		3-380~4	115V-50Hz			
Maximum current		A	61.00	62.80	70.50	71.50		
Refrigerant Circuit Data								
Refrigerant ²		type (GWP)	SWP) R410A (2088)					
Q.ty of refrigerant pre-charge 3 (tons of CO2 e	quivalent)	Kg	13 (27.14)	13 (27.14)	13.8 (28.81)	13.8 (28.81)		
Compressor		nb. / type	2 / Scroll DC Inverter 3 / Scroll DC Inv			OC Inverter		
Piping diameter ⁴	Liquid	mm (inch)	15.9 (5/8")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")		
riping diameter	Gas	mm (inch)	28.6 (1-1/8")	31.8 (1-1/4")	31.8 (1-1/4")	31.8 (1-1/4")		
Product Specifications								
Dimensions ⁵	WxHxD	mm	2370x1690x775	2370x1690x775	2370x1690x775	2370x1690x775		
Net weight		Kg	520	520	570	570		
Volume of air treated	max	m3/h	24000	25900	26500	27000		
Available static pressure	std/max	Pa	0/110	0/110	0/110	0/110		
Operating range (outdoor temperature)	Cooling	%	-15~55	-15~55	-15~55	-15~55		
operating range (outdoor temperature)	Operating range (outdoor temperature) Heating		-30~24	-30~24	-30~24	-30~24		
Connectable indoor units (max)		nb.	39	43	46	50		
Capacity of connectable indoor units		%		50 ~	~ 135			
Accessories								
Branch pipe kit for O.U. pairing		nb. / type	1 / DOS-68-MW-VA					

Model		M-VA-OV-1300-SG	M-VA-OV-1350-SG	M-VA-OV-1410-SG	M-VA-OV-1460-SG		
Power HP		HP	46	48	50	52	
Combination		'	280+450+560	280+450+615	335+450+615	280+560+615	
Rated capacity		kW	129.00	134.50	140.00	145.50	
Nominal absorbed power	Cooling	kW	33.61	35.61	37.34	36.50	
Energy efficiency coefficient (nominal)		EER1	3.84	3.78	3.75	3.99	
Rated capacity		kW	144.50	150.50	156.50	163.50	
Nominal absorbed power	Heating	kW	35.94	37.98	39.27	38.91	
Energy performance coefficient (nominal)		COP1	4.02	3.96	3.99	4.20	
Electrical Data							
Power supply		Ph-V-Hz		3-380~	~415-50		
Maximum current		A	110.80	111.80	112.40	119.50	
Refrigerant Circuit Data							
Refrigerant2		type (GWP)	R410A (2088)				
Q.ty of refrigerant pre-charge 3 (tons of CO2 e	quivalent)	Kg	21.3 (44.47)	21.3 (44.47)	23.3 (48.65)	22.1 (46.14)	
Compressor		nb. / type	4 / Scroll DC Inverter 5 / 1			5 / Scroll DC Inverter	
Piping diameter ⁴	Liquid	mm (inch)	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	
riping diameters	Gas	mm (inch)	38.1 (1-1/2")	38.1 (1-1/2")	41.3 (1-5/8")	41.3 (1-5/8")	
Product Specifications							
Dimensions ⁵	WxHxD	mm	3810x1690x775	3810x1690x775	3810x1690x775	3810x1690x775	
Net weight		Kg	870	875	895	925	
Volume of air treated	max	m³/h	42400	42400	43000	43000	
Available static pressure	std/max	Pa	0/110	0/110	0/110	0/110	
Operating range (outdoor temperature)	Cooling	°C	-15~55	-15~55	-15~55	-15~55	
operating range (outdoor temperature)	Heating	°C	-30~24	-30~24	-30~24	-30~24	
Connectable indoor units (max) nb.			64	64	66	69	
Capacity of connectable indoor units		%		50 ~	~ 135		
Accessories							
Branch pipe kit for O.U. pairing		nb. / type		2 / DOS-6	58-MW-VA		



^{1.} Value measured according to harmonized standard EN14511.

2. Refrigerant leakage contributes to climate change. Refrigerants with a lower global warming potential (GWP) contribute less to global warming when released into the atmosphere than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. Therefore, if 1 kg of this refrigerant were released into the atmosphere, the impact on global warming would be 2088 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. If necessary, always contact qualified personnel.

3. To calculate the additional refrigerant charge, refer to the labels located inside and outside the unit.

4. In combinations of multiple outdoor units, the diameters indicated refer to the section up to the first branch, with an equivalent length of less than 90 m.

5. Space between the combined units = 100 mm.

M-VA-OV-900-SG	M-VA-OV-960-SG	M-VA-OV-1010-SG	M-VA-OV-1065-SG	M-VA-OV-1130-SG	M-VA-OV-1180-SG	M-VA-OV-1235-SG
32	34	36	38	40	42	44
280+615	335+615	400+615	450+615	500+615	560+615	615+615
89.50	95.00	101.50	106.50	111.90	117.50	123.00
23.74	25.47	27.00	29.34	30.23	32.94	34.94
3.77	3.73	3.76	3.63	3.70	3.57	3.52
100.50	106.50	114.00	119.00	125.50	132.00	138.00
25.00	26.28	28.77	30.59	31.52	33.16	35.20
4.02	4.05	3.96	3.89	3.98	3.98	3.92
			3-380~415V-50Hz			
72.50	73.10	86.50	88.30	96.00	97.00	98.00
/ 2.50	/3.10	80.30	88.30	90.00	97.00	98.00
			R410A (2088)			
13.8 (28.81)	15.8 (32.99)	15.8 (32.99)	15.8 (32.99)	16.6 (34.66)	16.6 (34.66)	16.6 (34.66)
, ,	3 / Scroll	DC Inverter	,		4 / Scroll DC Inverter	, ,
19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")
31.8 (1-1/4")	31.8 (1-1/4")	38.1 (1-1/2")	38.1 (1-1/2")	38.1 (1-1/2")	38.1 (1-1/2")	38.1 (1-1/2")
2370x1690x775	2370x1690x775	2780x1690x775	2780x1690x775	2780x1690x775	2780x1690x775	2780x1690x775
575	595	655	655	705	705	710
27000	27600	30000	31900	32500	33000	33000
0/110	0/110	0/110	0/110	0/110	0/110	0/110
-15~55	-15~55	-15~55	-15~55	-15~55	-15~55	-15~55
-30~24	-30~24	-30~24	-30~24	-30~24	-30~24	-30~24
53	56	59	63	64	64	64
			50 ~ 135			
			1 / DOS-68-MW-VA			

M-VA-OV-1515-SG	M-VA-OV-1580-SG	M-VA-OV-1630-SG	M-VA-OV-1685-SG	M-VA-OV-1750-SG	M-VA-OV-1800-SG	M-VA-OV-1845-SG
54	56	58	60	62	64	66
280+615+615	335+615+615	400+615+615	450+615+615	500+615+615	560+615+615	615+615+615
151.00	156.50	163.00	168.00	173.40	179.00	184.50
41.21	42.94	44.47	46.82	47.70	50.41	52.41
3.66	3.64	3.67	3.59	3.64	3.55	3.52
169.50	175.50	183.00	188.00	194.50	201.00	207.00
42.60	43.88	46.37	48.19	49.12	50.76	52.81
3.98	4.00	3.95	3.90	3.96	3.96	3.92
			3-380~415-50			
121.50	122.10	135.50	137.30	145.00	146.00	147.00
121130	122.10	155.50	137.30	113.00	110.00	1 11 100
			R410A (2088)			
22.1 (46.14)	24.1 (50.32)	24.1 (50.32)	24.1 (50.32)	24.9 (51.99)	24.9 (51.99)	24.9 (51.99)
	5 / Scroll	OC Inverter			6 / Scroll DC Inverter	
19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")
41.3 (1-5/8")	41.3 (1-5/8")	41.3 (1-5/8")	41.3 (1-5/8")	41.3 (1-5/8")	41.3 (1-5/8")	41.3 (1-5/8")
2010.1600.775	2010.1600.775	4220-1600-775	4220.4600.775	4220, 1600, 775	4220-4600-775	4220-4600-775
3810x1690x775	3810x1690x775	4220x1690x775	4220x1690x775	4220x1690x775	4220x1690x775	4220x1690x775
930	950	1010	1010	1060	1060	1065
43500	44100	46500	48400	49000	49500	49500
0/110	0/110	0/110	0/110	0/110	0/110	0/110
-15~55	-15~55	-15~55	-15~55	-15~55	-15~55	-15~55
-30~24	-30~24	-30~24	-30~24	-30~24	-30~24	-30~24
71	74	77	80	80	80	80
			50 ~ 135			
			- 1000 1001			
			2 / DOS-68-MW-VA			



^{1.} Value measured according to harmonized standard EN14511.
2. Refrigerant leakage contributes to climate change. Refrigerants with a lower global warming potential (GWP) contribute less to global warming when released into the atmosphere than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. Therefore, if 1 kg of this refrigerant were released into the atmosphere, the impact on global warming would be 2088 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 disasseemble the product. If necessary, always contact qualified personnel.
3. To calculate the additional refrigerant charge, refer to the labels located inside and outside the unit.
4. In combinations of multiple outdoor units, the diameters indicated refer to the section up to the first branch, with an equivalent length of less than 90 m.
5. Space between the combined units = 100 mm.

Model			M-VA-OV-1908-SG	M-VA-OV-1962-SG	M-VA-OV-2016-SG	M-VA-OV-2072-SG	
Power HP		68	70	72	74		
Combination			280+450+560+615	280+500+560+615	280+560+560+615	280+560+615+615	
Rated capacity		kW	190.50	195.90	201.50	207.00	
Nominal absorbed power	Cooling	kW	51.08	51.96	54.67	56.68	
Energy efficiency coefficient (nominal)		EER1	3.73	3.77	3.69	3.65	
Rated capacity		kW	213.50	220.00	226.50	232.50	
Nominal absorbed power	Heating	kW	53.54	54.47	56.11	58.15	
Energy performance coefficient (nominal)		COP1	3.99	4.04	4.04	4.00	
Electrical Data							
Power supply		Ph-V-Hz	3-380~415-50				
Maximum current		A	159.80	167.50	168.50	169.50	
Refrigerant Circuit Data							
Refrigerant2 type (type (GWP)	R410A (2088)				
Q.ty of refrigerant pre-charge 3 (tons of CO2 equivalent)		Kg	29.6 (61.8)	30.4 (63.47)	30.4 (63.47)	30.4 (63.47)	
Compressor nb. ,		nb. / type	6 / Scroll DC Inverter 7 / Scroll DC Inverter				
Piping diameter ⁴	Liquid	mm (inch)	22.2 (7/8 ")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	
riping diameter	Gas	mm (inch)	44.5 (1-3/4 ")	44.5 (1-3/4")	44.5 (1-3/4")	44.5 (1-3/4")	
Product Specifications							
Dimensions ⁵	WxHxD	mm	5250x1690x775	5250x1690x775	5250x1690x775	5250x1690x775	
Net weight		Kg	1225	1275	1275	1280	
Volume of air treated	max	m³/h	58900	59500	60000	60000	
Available static pressure	std/max	Pa	0/110	0/110	0/110	0/110	
Operating range (outdoor temperature)	Cooling	°C	-15~55	-15~55	-15~55	-15~55	
operating range (outdoor temperature)	Heating	°C	-30~24	-30~24	-30~24	-30~24	
Connectable indoor units (max) nb.			80	80	80	80	
Capacity of connectable indoor units %		%	50 ∼ 135				
Accessories							
Branch pipe kit for O.U. pairing nb. / type		nb. / type	3 / DOS-68-MW-VA				



^{1.} Value measured according to harmonized standard EN14511.

2. Refrigerant leakage contributes to climate change. Refrigerants with a lower global warming potential (GWP) contribute less to global warming when released into the atmosphere than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. Therefore, if 1 kg of this refrigerant were released into the atmosphere, the impact on global warming would be 2088 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. If necessary, always contact qualified personnel.

3. To calculate the additional refrigerant charge, refer to the labels located inside and outside the unit.

4. In combinations of multiple outdoor units, the diameters indicated refer to the section up to the first branch, with an equivalent length of less than 90 m.

5. Space between the combined units = 100 mm.

M-VA-OV-2128-SG	M-VA-OV-2184-SG	M-VA-OV-2240-SG	M-VA-OV-2295-SG	M-VA-OV-2350-SG	M-VA-OV-2405-SG	M-VA-OV-2460-S0
76	78	80	82	84	86	88
280+615+615+615	335+615+615+615	400+615+615+615	450+615+615+615	500+615+615+615	560+615+615+615	615+615+615+615
212.50	218.00	224.50	229.50	234.90	240.50	246.00
58.68	60.41	61.94	64.29	65.17	67.88	69.89
3.62	3.61	3.62	3.57	3.60	3.54	3.52
238.50	244.50	252.00	257.00	263.50	270.00	276.00
60.20	61.49	63.97	65.79	66.72	68.36	70.41
3.96	3.98	3.94	3.91	3.95	3.95	3.92
			2 222 445 52			
			3-380~415-50			
170.50	171.10	184.50	186.30	194.00	195.00	196.00
			R410A (2088)			
30.4 (63.47)	32.4 (67.65)	32.4 (67.65)	32.4 (67.65)	33.2 (69.32)	33.2 (69.32)	33.2 (69.32)
	7 / Scroll	OC Inverter			8 / Scroll DC Inverter	
22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")
44.5 (1-3/4")	44.5 (1-3/4")	44.5 (1-3/4")	44.5 (1-3/4")	44.5 (1-3/4")	44.5 (1-3/4")	44.5 (1-3/4")
5250x1690x775	5250x1690x775	5660x1690x775	5660x1690x775	5660x1690x775	5660x1690x775	5660x1690x775
1285	1305	1365	1365	1415	1415	1420
60000	60600	63000	64900	65500	66000	66000
0/110	0/110	0/110	0/110	0/110	0/110	0/110
-15~55	-15~55	-15~55	-15~55	-15~55	-15~55	-15~55
-30~24	-30~24	-30~24	-30~24	-30~24	-30~24	-30~24
80	80	80	80	80	80	80
			50 ~ 135			
			3 / DOS-68-MW-VA			



^{1.} Value measured according to harmonized standard EN14511.
2. Refrigerant leakage contributes to climate change. Refrigerants with a lower global warming potential (GWP) contribute less to global warming when released into the atmosphere than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. Therefore, if 1 kg of this refrigerant were released into the atmosphere, the impact on global warming would be 2088 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 disasseemble the product. If necessary, always contact qualified personnel.
3. To calculate the additional refrigerant charge, refer to the labels located inside and outside the unit.
4. In combinations of multiple outdoor units, the diameters indicated refer to the section up to the first branch, with an equivalent length of less than 90 m.
5. Space between the combined units = 100 mm.



THE MW 3-PIPE SYSTEM HEAT RECOVERY IN INDIVIDUAL OR MODULAR USE

OUTDOOR UNITS



22.40 kW	28.00 kW	33.50 kW
8HP	10HP	12HP
M-VR-OV-224-SG	M-VR-OV-280-SG	M-VR-OV-335-SG



40.00 kW	45.00 kW	50.40 kW	56.00 kW	61.50 kW
14HP	16HP	18HP	20HP	22HP
M-VR-OV-400-SG	M-VR-OV-450-SG	M-VR-OV-500-SG	M-VR-OV-560-SG	M-VR-OV-615-SG

FLOW CONTROLLERS

Nb. of connections	Nb. of connections	Nb. of connections	Nb. of connections	
1	2	4	8	
M-VR-ME-1-NG	M-VR-ME-2-NG	M-VR-ME-4-NG	M-VR-ME-8-NG	









HYDRONIC MODULE



16.00 kW
1-Phase
M-VR-HM-16-NG
30.00 kW
1-Phase
M-VR-HM-30-NG

INDOOR UNITS

Applicable indoor units for air-to-air operation on page 101



MW 3-PIPE HEAT RECOVERY CONSISTS OF 8 INDIVIDUAL OUTDOOR UNITS. IN COMBINATION. IT REACHES A MAXIMUM OUTPUT OF 246 KW TO WHICH UP TO 80 INDOOR UNITS CAN BE CONNECTED

8 THREE-PHASE MODELS

The maximum power of the single outdoor unit reaches 61.5 kW (22 HP); the maximum power of the combined outdoor units reaches 246 kW (88 HP), the highest value in the industry.

The MW 3-PIPE system is able to create combinations of 4 external units, to which up to 80 internal units can be connected, thanks to the most advanced CAN+ technology.

POWER AND NUMBER OF CONNECTABLE INDOOR UNITS

Model	Min~Max power of connectable I.U.	Min~Max number of connectable I.U.	Max power of connectable N hydronic modules [kW]	Max number of connectable hydronic modules	Conto Termico 2.0	Ecobonus
M-VR-OV-224-SG	50~135%	1~13	32	2	/	~
M-VR-OV-280-SG	50~135%	1~16	32	2	/	
M-VR-OV-335-SG	50~135%	1~19	32	2	/	
M-VR-OV-400-SG	50~135%	1~23	32	2	/	
M-VR-OV-450-SG	50~135%	1~26	46	2	/	
M-VR-OV-500-SG	50~135%	1~29	46	2	✓	
M-VR-OV-560-SG	50~135%	1~33	46	2	✓	
M-VR-OV-615-SG	50~135%	1~36	60	2	V	

MAXIMUM COMPACTNESS FOR ALL OUTDOOR UNITS

Compactness is another important plus. There are two aesthetics proposed, with a single fan (from 22.4 to 33.5 kW) and with a double fan (from 40 to 61.5 kW).

22.40 - 28.00 - 33.50 kW



L 930 x H 1690 x D 775 (mm)

40.00 - 45.00 - 50.40 - 56.00 - 61.50 kW



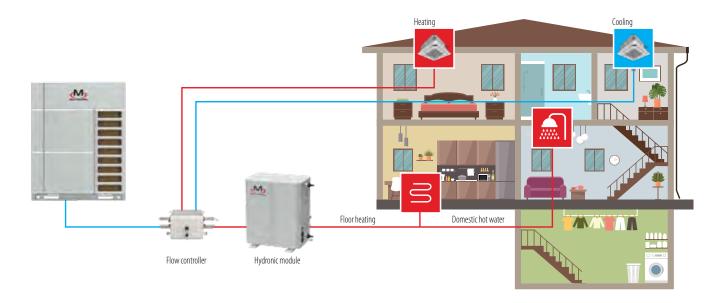
L 1340 x H 1690 x D 775 (mm)



MIX OF TECHNOLOGIES TO ENSURE MAXIMUM EFFICIENCY AND ENERGY SAVINGS

The MULTIWARM 3-PIPE system with heat recovery can simultaneously meet the needs of air conditioning, heating and hot water production.

The MULTIWARM 3-PIPE range is particularly suitable for many types of applications: villas, shops, offices, shopping centres, hotels, hospitals, banks, museums, schools.



All DC Inverter Compressors

The use of All DC Inverter compressors guarantees excellent system efficiency both at full load and partial load. The high efficiency permanent magnet synchronous motor produces a better performance than the traditional DC Inverter compressor.

The system can directly absorb gas to reduce superheat loss.

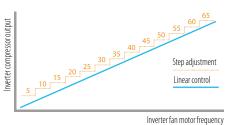


DC Inverter Sensorless Fan Motor



Linear speed regulation ranges from 5 to 65 Hz. Compared with traditional Inverter motors, operation is more efficient.

Sensorless control technology ensures quieter operation, less vibration and smoother operation.



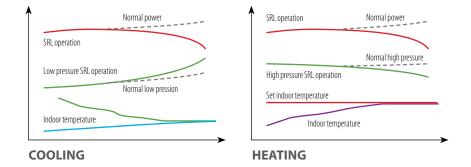
Enhanced Vapour Injection "EVI" technology

This special technology applied to the compressor uses part of the refrigerant to maximize performance while improving energy efficiency.

Automatic load control

The unit intelligently detects and controls system parameters, adapting them to actual cooling/heating needs.

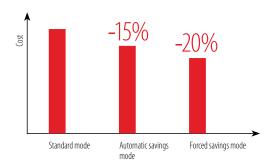
Automatically adjusts the refrigerant heat exchange temperature according to the increase or decrease in ambient temperature.



Control technology with energy savings of up to 20%

The MW 3-PIPE system has two energy saving modes:

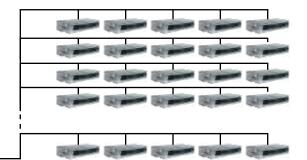
- ➤ Automatic energy saving: automatically adjusts the parameters according to the working status, thus reducing the cost of electricity. It can save up to 15% energy.
- > Forced energy saving: forcedly limits the output power. Depending on the power consumption and user needs, a capacity ratio of 90% or 80% can be selected.



Up to 80 connectable indoor units

The Multiwarm 3-PIPE system can be installed in combinations of up to 4 outdoor units, and is capable of connecting up to 80 indoor units.





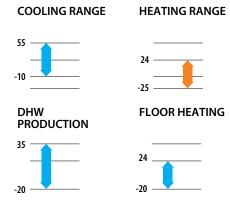


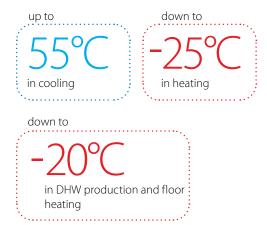
SILENT COMFORT THAT LASTS OVER TIME

Wide operating range, from -25°C to 55°C, fast start-up times, rapid defrosting without performance drops. Reduced noise for maximum comfort in all environments.

Wide range of operation and operating conditions

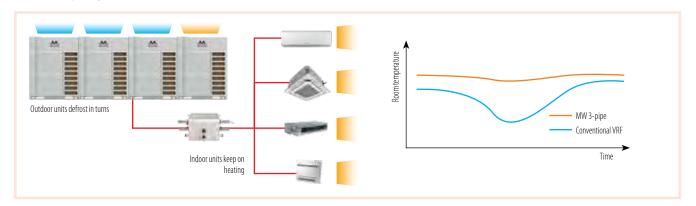
Operation is possible for voltages from 380 to 415V, at 50Hz.





Heat storage defrosting technology (optional module)

The heat storage module is optional and offers the advantage of an innovative and intelligent defrosting mode, allowing you to accelerate heat transfer, defrost quickly and maintain constant comfort.



Reduction of pre-heating time

The motor's electric winding and the heating belt are activated simultaneously, heating the oil and ensuring rapid and complete evaporation of the coolant.

This allows the pre-heating time to be reduced by 75%, from 8 to 2 hours.

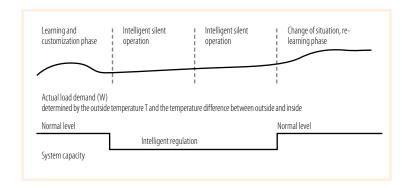


Intelligent defrosting and autoadaptive control

It occurs with variable cycles and capacities based on the system temperature, pressure and speed of the workload. The MW 3-PIPE system can automatically change the compressor capacity during defrosting by evaluating the parameters in real time, so as to obtain stable or fast defrosting.

Outdoor unit silent mode and sound level control

The system can learn, define and remember user habits. It can automatically determine the system capacity in the next 24 hours to achieve automatic silent operation.



Optimized fan housing design

The fan housing structure reduces vibrations during operation. This allows a reduction in noise level of up to 3 dB(A).

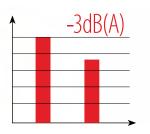




3D aerodynamic axial fan

Its special inverted S-shape, while ensuring a significant increase in air flow, has the advantage of containing noise emissions.





Sound absorption and insulation

The use of high-quality sound-absorbing materials ensures optimum insulation of the compressor and other components. The use of sound-absorbing cotton + insulation box allows the unit's noise level to be controlled.





cotton

Insulation box

Intelligent control of the refrigeration circuit

The system intelligently judges whether the refrigerant circulation amount is sufficient based on the system parameters (pressure, temperature, speed, etc.). The refrigerant transfer is performed automatically.



EXCELLENT PERFORMANCE

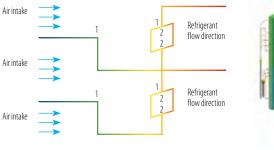
The new generation intelligent management control system and healthy fresh air solution ensure excellent energy saving, comfort and reliability.

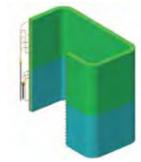
Highly efficient heat exchanger

The heat exchanger has a design such that the battery has been divided into two distinct areas (upper and lower) to improve the flow of the refrigerant: the flow scheme adopted (1-2-2-1), compared to the traditional one, guarantees a better heat exchange.

Its characteristics:

- > corrugated heat exchange fins with reduced pitch;
- reduced fin section, increased corrosion resistance;
- wavy hydrophilic design, easier defrosting.





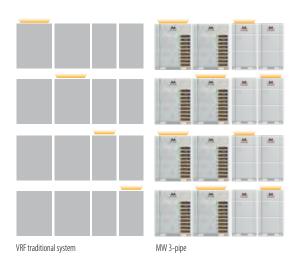
Wide airflow

The inverted S-shaped fan blade design allows for a larger action area and consequently a greater volume of air treated at the same rpm.



HPAC function - intelligent switching control

The MW 3-PIPE system adopts a brand new modular control method that ensures not only the operating life of the entire unit, but also the overall operating energy efficiency through intelligent switching, modulated according to the load demands of the indoor unit.



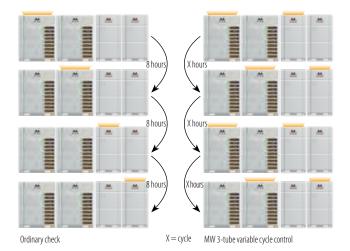
MULTIWARM

RELIABILITY OVER TIME AND EASY MAINTENANCE

Heat exchanger with Golden Fin treatment against corrosion. Protects against atmospheric phenomena and the effects of aggressive environments.

Alternating control of variable cycle modules

The HPAC function, with intelligent switching between outdoor units according to a variable control cycle based on the load demands of the indoor unit, helps to increase the reliability of the system over time.



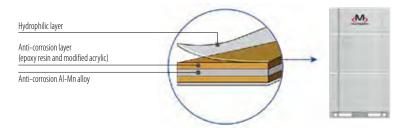
Compressor rotation control

The overall life of the modular units is considered in the system control. When there is more than one compressor, the internal compressors will operate in turn to balance the life of each compressor.



Golden Fin Anti-Corrosion Protection

The main material of the Golden Fin is a rust-proof aluminum-manganese (Al-Mn) alloy, coated with the Golden Protection Layer (anti-corrosion layer composed of epoxy resin and modified acrylic, without silicone) whose anti-corrosion performance in the salt spray test is 200-300% higher than that of normal Blue Fins.





FLEXIBILITY AND SIMPLICITY OF INSTALLATION

The maximum overall pipe length available on the market, equal to 1,000 m, allows installation in a wide range of buildings, with maximum flexibility.

High split length

Maximum effective length of a single pipe = 200 m

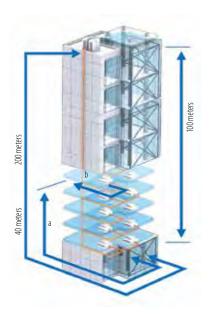
Maximum equivalent length of a single pipe = 240 m

Maximum length of pipes = 1000 m

Maximum length after first branch = 120 m

Maximum height difference of indoor and outdoor units = 110 m

Maximum height difference between indoor units = 30 m



Smart Start

QUICK INSTALLATION

- Automatic address assignment to indoor units, no DIP switch required for start-up.
- > Five-sided outlet pipe connection method: maximum installation versatility.
- No external oil balance tube thanks to advanced oil balance control.
- > Highly versatile design.

EFFICIENT MULTIPLE STARTS







Quick start with just one Clear interface, detailed data button. and professional analysis.

Multifunctional debugger, quick connection, no special PC needed, automatic data storage, no external memory.

Debugging without installation wired control.

Air ducting - maximum versatility

The design of the outdoor unit fan allows for a very



high static pressure of the outdoor unit, with a range from 0 to 110 Pa. This makes the installation of the machine more versatile and suitable for different types of environments, especially in cases where it is necessary to position the

outdoor units inside the rooms.

Large spaces for easy maintenance

The MW 3-PIPE system is designed with integrated electric control and reserved maintenance space, to facilitate aftersales service.





Excellent emergency operation

EMERGENCY FUNCTION

The system can realize a combination of 4 modules with outdoor units. When an error occurs in one of the modules, the other modules take over the emergency operation to continue the service.

EMERGENCY OPERATION OF THE FAN

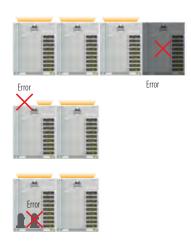
Thanks to the dual fan design, one of the two fans can continue to operate if the other one fails.

COMPRESSOR EMERGENCY OPERATION

All compressors in each module are DC Inverter and when one compressor fails, the others take over the emergency operation.

EMERGENCY OPERATION OF THE SENSOR

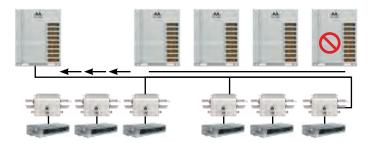
If there is a sensor problem on one indoor unit, it can be turned off while the other units continue to operate. A maximum of 3 indoor units can be turned off at the same time.





Automatic refrigerant recovery

The advanced automatic refrigerant recovery function from the indoor and outdoor units allows the refrigerant to be effectively recovered from the units in the event of a malfunction, avoiding gas dispersion and reducing intervention times.

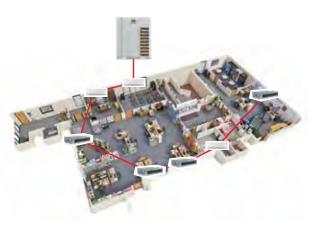


Emergency function of the indoor unit

When an indoor unit needs to be turned off for maintenance, the other indoor units connected to the same system remain in operation.

Auto-positioning function of indoor units

If multiple indoor units are installed in large spaces such as exhibition halls, conference rooms and offices, the autopositioning function enables the indoor unit buzzers to sound so you can guickly locate them.







OUTDOOR UNITS

3 REFRIGERANT CAPACITIES

22.40 - 28.00 - 33.50 kW

R410A

Refrigerant gas



DC Inverter compressors guarantee total reliability thanks to high energy efficiency and silence. In addition, they allow a reduction in vibrations and accurate control of the operating frequency.

OPERATION RANGE

55 -10 -25 Very wide operating limits: winter operation up to -25° C of external air and summer operation up to +55° C.

M-VR-OV-224-SG M-VR-OV-280-SG M-VR-OV-335-SG

Model			M-VR-OV-224-SG	M-VR-OV-280-SG	M-VR-OV-335-SG
Power		HP	8	10	12
Nominal Data					
Rated capacity		kW	22.40	28.00	33.50
Nominal absorbed power	Cooling	kW	4.98	6.48	8.19
Energy efficiency coefficient (nominal)	,	EER1	4.50	4.32	4.09
Rated capacity		kW	25.00	31.50	37.50
Nominal absorbed power	Heating	kW	5.10	7.24	8.91
Energy performance coefficient (nominal)		COP1	4.90	4.35	4.21
Seasonal Data					
Cascanal anarqui officiancy index	Cooling	SEER2	7.00	6.70	6.55
Seasonal energy efficiency index	Heating	SCOP2	4.32	4.58	4.74
Electrical Data					
Power supply		Ph-V-Hz		3-380~415V-50Hz	
Maximum current		A	23.00	23.50	24.10
Refrigerant Circuit Data					
Refrigerant3		type (GWP)		R410A (2088)	
Q.ty of refrigerant pre-charge 4 (tons of CO2 ed	juivalent)	Kg	8.2 (17.12)	8.5 (17.75)	9.6 (20.04)
Compressor		nb. / type	1 / Scroll DC Inverter		
	Liquid	mm (inch)	9.52 (3/8")	9.52 (3/8")	12.7 (1/2")
Piping diameter	Gas HP	mm (inch)	15.9 (5/8")	19.05 (3/4")	19.05 (3/4")
. 3	Gas LP	mm (inch)	19.05 (3/4")	22.2 (7/8")	25.4 (1")
Product Specifications					
Dimensions	WxHxD	mm	930x1690x775	930x1690x775	930x1690x775
Net weight		Kg	243	243	256
Sound power level	max	dB(A)	80	82	84
Sound pressure level at 1 m	max	dB(A)	60	61	63
Volume of air treated	max	m³/h	9750	10500	11100
Available static pressure	std/max	Pa	0/110	0/110	0/110
	Cooling	°C	-10~55	-10~55	-10~55
Ingrating range (outdoor temperature)	Heating	°C	-25~24	-25~24	-25~24
Operating range (outdoor temperature)	Hydronic heating	°C	-20~24	-20~24	-20~24
	Domestic hot water (DHW)	°C	-20~35	-20~35	-20~35
Connectable air-to-air indoor units (max)		nb.	13	16	19
Connectable air-to-water hydronic module	s (max) ⁵	nb.	2	2	2
Capacity of connectable air-to-air indoor u	nits	%		50 ~ 135	



^{1.} Value measured according to the harmonized standard EN14511.

2. EU Regulation No. 206/2012 - - Value measured according to the harmonized standard EN14825.

3. Refrigerant leakage contributes to climate change. If 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 2088. If 1 kg of this refrigerant were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher 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. If necessary, always contact qualified personnel.

4. To calculate the additional refrigerant charge, refer to the labels located inside and outside the unit.

5. To determine the power of the connectable hydronic modules, consult the installation manual.

OUTDOOR UNITS

5 REFRIGERANT CAPACITIES

40.00 - 45.00 - 50.40 - 56.00 - 61.50 kW

R410A

Refrigerant gas

DC Inverter compressors guarantee total reliability thanks to high energy efficiency and silence. In addition, they allow a reduction in vibrations and accurate control of the operating frequency.



OPERATION RANGE

55 -10 -25

Very wide operating limits: winter operation up to -25° C of external air and summer operation up to +55° C.

M-VR-OV-400-SG M-VR-OV-450-SG M-VR-OV-500-SG M-VR-OV-560-SG M-VR-OV-615-SG

Model			M-VR-OV-400-SG	M-VR-OV-450-SG	M-VR-OV-500-SG	M-VR-OV-560-SG	M-VR-OV-615-SG		
Power		HP	14	16	18	20	22		
Nominal Data									
Rated capacity		kW	40.00	45.00	50.40	56.00	61.50		
Nominal absorbed power	Cooling	kW	9.76	11.45	12.99	15.82	18.52		
Energy efficiency coefficient (nominal)		EER1	4.10	3.93	3.88	3.54	3.32		
Rated capacity		kW	45.00	50.00	56.50	63.00	69.00		
Nominal absorbed power	Heating	kW	10.84	12.47	14.49	16.71	18.40		
Energy performance coefficient (nominal)		COP1	4.15	4.01	3.90	3.77	3.75		
Seasonal Data									
C	Cooling	SEER2	6.91	6.46	6.48	6.32	6.32		
Seasonal energy efficiency index	Heating	SCOP2	4.44	4.42	4.25	4.15	4.15		
Electrical Data									
Power supply		Ph-V-Hz			3-380~415V-50Hz				
Maximum current		A	37.50	39.30	47.00	48.00	49.00		
Refrigerant Circuit Data									
Refrigerant3		type (GWP)		R410A (2088)					
Q.ty of refrigerant pre-charge 4 (tons of CO2 ec	quivalent)	Kg	11.1 (23.18)	11.6 (24.22)	12.8 (26.73)	12.8 (26.73)	13.3 (27.77)		
Compressor		nb. / type	1 / Scroll [1 / Scroll DC Inverter		2 / Scroll DC Inverter			
•	Liquid	mm (inch)	12.7 (1/2")	12.7 (1/2")	15.9 (5/8")	15.9 (5/8")	15.9 (5/8")		
Piping diameter	Gas HP	mm (inch)	22.2 (7/8")	22.2 (7/8")	25.4 (1")	25.4 (1")	25.4 (1")		
. 3	Gas LP	mm (inch)	25.4 (1")	28.6 (1-1/8")	28.6 (1-1/8")	28.6 (1-1/8")	28.6 (1-1/8")		
Product Specifications									
Dimensions	WxHxD	mm	1340x1690x775	1340x1690x775	1340x1690x775	1340x1690x775	1340x1690x775		
Net weight		Kg	325	325	385	385	385		
Sound power level	max	dB(A)	91	91	88	88	88		
Sound pressure level at 1 m	max	dB(A)	63	63	63	63	64		
Volume of air treated	max	m ³ /h	13500	15400	16500	16500	16500		
Available static pressure	std/max	Pa	0/110	0/110	0/110	0/110	0/110		
	Cooling	°C	-10~55	-10~55	-10~55	-10~55	-10~55		
On austin a vanue (autile autemana)	Heating	°C	-25~24	-25~24	-25~24	-25~24	-25~24		
Operating range (outdoor temperature)	Hydronic heating	°C	-20~24	-20~24	-20~24	-20~24	-20~24		
	Domestic hot water (DHW)	°C	-20~35	-20~35	-20~35	-20~35	-20~35		
Connectable air-to-air indoor units (max)	,	nb.	23	26	29	33	36		
Connectable air-to-water hydronic module	es (max) ⁵	nb.	2	2	2	2	2		
Capacity of connectable air-to-air indoor u		%			50 ~ 135				



^{1.} Value measured according to the harmonized standard EN14511.
2. EU Regulation No. 206/2012 -- Value measured according to the harmonized standard EN14825.
3. Refrigerant leakage contributes to climate change. If 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 2088. If 1 kg of this refrigerant were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher 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. If necessary, always contact qualified personnel.
4. To calculate the additional refrigerant charge, refer to the labels located inside and outside the unit.
5. To determine the power of the connectable hydronic modules, consult the installation manual.

Model			M-VR-OV-680-SG	M-VR-OV-730-SG	M-VR-OV-785-SG	M-VR-OV-850-SG	
Power		HP	24	26	28	30	
Combination			280+400	280+450	280+500	280+560	
Rated capacity		kW	68.00	73.00	78.40	84.00	
Nominal absorbed power	Cooling	kW	16.24	17.93	19.47	22.30	
Energy efficiency coefficient (nominal)		EER1	4.19	4.07	4.03	3.77	
Rated capacity		kW	76.50	81.50	88.00	94.50	
Nominal absorbed power	Heating	kW	18.08	19.71	21.73	23.95	
Energy performance coefficient (nominal)		COP1	4.23	4.13	4.05	3.95	
Electrical Data							
Power supply		Ph-V-Hz		3-380~4	15V-50Hz		
Maximum current		A	61.00	62.80	70.50	71.50	
Refrigerant Circuit Data							
Refrigerant2		type (GWP)		R410A (2088)			
Q.ty of refrigerant pre-charge 3 (tons of CO2 equiv	/alent)	Kg	19.6 (40.93)	20.1 (41.97)	21.3 (44.48)	21.3 (44.48)	
Compressor		nb. / type	2 / Scroll DC Inverter		3 / Scroll DC Inverter		
	Liquid	mm (inch)	15.9 (5/8")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	
Piping diameter4	Gas HP	mm (inch)	25.4 (1")	28.6 (1-1/8")	28.6 (1-1/8")	28.6 (1-1/8")	
	Gas LP	mm (inch)	28.6 (1-1/8")	31.8 (1-1/4")	31.8 (1-1/4")	31.8 (1-1/4")	
Product Specifications							
Dimensions ⁵	WxHxD	mm	2370x1690x775	2370x1690x775	2370x1690x775	2370x1690x775	
Net weight		Kg	568	568	628	628	
Volume of air treated	max	m³/h	24000	25900	27000	27000	
Available static pressure	std/max	Pa	0/110	0/110	0/110	0/110	
	Cooling	°C	-10~55	-10~55	-10~55	-10~55	
Operating range (outdoor temperature)	Heating	°C	-25~24	-25~24	-25~24	-25~24	
operating range (outdoor temperature)	Hydronic heating	°C	-20~24	-20~24	-20~24	-20~24	
	Domestic hot water (DHW)	°C	-20~35	-20~35	-20~35	-20~35	
Connectable air-to-air indoor units (max)		nb. nb.	39	43	46	50	
	Connectable air-to-water hydronic modules (max)6		4	4	4	4	
Capacity of connectable air-to-air indoor units	S	%		50 ~	135		
Accessories							
Branch pipe kit for O.U. pairing		nb. / type		1 / DOS-68	8-MW-VR		

Model			M-VR-OV-1300-SG	M-VR-OV-1350-SG	M-VR-OV-1410-SG	M-VR-OV-1460-SG	
Power		HP	46	48	50	52	
Combination			280+450+560	280+450+615	335+450+615	280+560+615	
Rated capacity		kW	129.00	134.50	140.00	145.50	
Nominal absorbed power	Cooling	kW	33.75	36.46	38.17	40.82	
Energy efficiency coefficient (nominal)		EER1	3.82	3.69	3.67	3.56	
Rated capacity		kW	144.50	150.50	156.50	163.50	
Nominal absorbed power	Heating	kW	36.42	38.11	39.78	42.35	
Energy performance coefficient (nominal)		COP1	3.97	3.95	3.93	3.86	
Electrical Data							
Power supply		Ph-V-Hz		3-380~	-415-50		
Maximum current		A	110.80	111.80	112.40	120.50	
Refrigerant Circuit Data							
Refrigerant2		type (GWP)	R410A (2088)				
Q.ty of refrigerant pre-charge 3 (tons of CO2 ed	quivalent)	Kg	32.9 (68.70)	33.4 (69.74)	34.5 (72.03)	34.6 (72.25)	
Compressor		nb. / type		4 / Scroll DC Inverter		5 / Scroll DC Inverter	
	Liquid	mm (inch)	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	
Piping diameter4	Gas HP	mm (inch)	31.8 (1-1/4")	31.8 (1-1/4")	38.1 (1-1/2")	38.1 (1-1/2")	
	Gas LP	mm (inch)	38.1 (1-1/2")	38.1 (1-1/2")	41.3 (1-5/8")	41.3 (1-5/8")	
Product Specifications							
Dimensions ⁵	WxHxD	mm	3810x1690x775	3810x1690x775	3810x1690x775	3810x1690x775	
Net weight		Kg	953	953	966	1013	
Volume of air treated	max	m³/h	42400	42400	43000	43500	
Available static pressure	std/max	Pa	0/110	0/110	0/110	0/110	
	Cooling	%	-10~55	-10~55	-10~55	-10~55	
On a ration range (a rational arctions)	Heating	%	-25~24	-25~24	-25~24	-25~24	
Operating range (outdoor temperature)	Hydronic heating	°C	-20~24	-20~24	-20~24	-20~24	
	Domestic hot water (DHW)	°C	-20~35	-20~35	-20~35	-20~35	
Connectable air-to-air indoor units (max)		nb.	64	64	66	69	
Connectable air-to-water hydronic modules (max)6		nb.	6	6	6	6	
Capacity of connectable air-to-air indoor u	nits	%		50 ~	· 135		
Accessories			<u> </u>		<u> </u>		
Branch pipe kit for O.U. pairing		nb. / type	<u> </u>	1 / DOS-68-MW-VR +	- 1 / DOS-246-MW-VR	<u> </u>	



^{1.} Value measured according to harmonized standard EN14511.

2. Refrigerant leakage contributes to climate change. Refrigerants with a lower global warming potential (GWP) contribute less to global warming when released into the atmosphere than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. Therefore, if 1 kg of this refrigerant were released into the atmosphere, the impact on global warming would be 2088 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. If necessary, always contact qualified personnel.

3. To calculate the additional refrigerant charge, refer to the labels located inside and outside the unit.

4. In combinations of multiple outdoor units, the diameters indicated refer to the section up to the first branch, with an equivalent length of less than 90 m.

5. Space between the combined units = 100 mm.

6. To determine the power of the connectable hydronic modules, consult the installation manual.

M-VR-OV-900-SG	M-VR-OV-960-SG	M-VR-OV-1010-SG	M-VR-OV-1065-SG	M-VR-OV-1130-SG	M-VR-OV-1180-SG	M-VR-OV-1235-SG
32	34	36	38	40	42	44
280+615	335+615	400+615	450+615	500+615	560+615	615+615
89.50	95.00	101.50	106.50	111.90	117.50	123.00
25.01	26.71	28.28	29.97	31.51	34.34	37.05
3.58	3.56	3.59	3.55	3.55	3.42	3.32
100.50	106.50	114.00	119.00	125.50	132.00	138.00
25.64	27.31	29.24	30.87	32.89	35.11	36.80
3.92	3.90	3.90	3.86	3.82	3.76	3.75
			3-380~415V-50Hz			
72.50	73.10	86.50	88.30	96.00	97.00	98.00
			R410A (2088)			
21.8 (45.52)	22.9 (47.81)	24.4 (50.95)	24.9 (51.99)	26.1 (54.50)	26.1 (54.50)	26.6 (55.54)
		DC Inverter			4 / Scroll DC Inverter	
19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")
28.6 (1-1/8")	28.6 (1-1/8")	28.6 (1-1/8")	31.8 (1-1/4")	31.8 (1-1/4")	31.8 (1-1/4")	31.8 (1-1/4")
31.8 (1-1/4")	31.8 (1-1/4")	31.8 (1-1/4")	38.1 (1-1/2")	38.1 (1-1/2")	38.1 (1-1/2")	38.1 (1-1/2")
2370x1690x775	2370x1690x775	2780x1690x775	2780x1690x775	2780x1690x775	2780x1690x775	2780x1690x775
628	641	710	710	770	770	770
27000	27600	30000	31900	33000	33000	33000
0/110	0/110	0/110	0/110	0/110	0/110	0/110
-10~55	-10~55	-10~55	-10~55	-10~55	-10~55	-10~55
-25~24	-25~24	-25~24	-25~24	-25~24	-25~24	-25~24
-20~24	-20~24	-20~24	-20~24	-20~24	-20~24	-20~24
-20~35	-20~35	-20~35	-20~35	-20~35	-20~35	-20~35
53	56	59	63	64	64	64
4	4	4	4	4	4	4
			50 ~ 135			
		T				
1 / DOS-6	68-MW-VR			1 / DOS-246-MW-VR		

M-VR-OV-1515-SG	M-VR-OV-1580-SG	M-VR-OV-1630-SG	M-VR-OV-1685-SG	M-VR-OV-1750-SG	M-VR-OV-1800-SG	M-VR-OV-1845-SG
54	56	58	60	62	64	66
280+615+615	335+615+615	400+615+615	450+615+615	500+615+615	560+615+615	615+615+615
151.00	156.50	163.00	168.00	173.40	179.00	184.50
43.53	45.24	46.80	48.50	50.04	52.87	55.57
3.47	3.46	3.48	3.46	3.47	3.39	3.32
169.50	175.50	183.00	188.00	194.50	201.00	207.00
44.04	45.71	47.64	49.27	51.29	53.51	55.20
3.85	3.84	3.84	3.82	3.79	3.76	3.75
			3-380~415-50			
121.50	122.10	135.50	137.30	145.00	146.00	147.00
			R410A (2088)			
35.1 (73.29)	36.2 (75.58)	37.7 (78.72)	38.2 (79.76)	39.4 (82.27)	39.4 (82.27)	39.9 (83.31)
33.1 (73.23)		DC Inverter	30.2 (73.70)	39.4 (02.27)	6 / Scroll DC Inverter	37.7 (03.31)
19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")
38.1 (1-1/2")	38.1 (1-1/2")	38.1 (1-1/2")	38.1 (1-1/2")	38.1 (1-1/2")	38.1 (1-1/2")	38.1 (1-1/2")
41.3 (1-5/8")	41.3 (1-5/8")	41.3 (1-5/8")	41.3 (1-5/8")	41.3 (1-5/8")	41.3 (1-5/8")	41.3 (1-5/8")
41.3 (1-3/6)	41.3 (1-3/0)	41.5 (1-5/6)	41.3 (1-3/0)	41.3 (1-3/0)	41.3 (1-3/0)	41.5 (1-5/6)
3810x1690x775	3810x1690x775	4220x1690x775	4220x1690x775	4220x1690x775	4220x1690x775	4220x1690x775
1013	1026	1095	1095	1155	1155	1155
43500	44100	46500	48400	49500	49500	49500
0/110	0/110	0/110	0/110	0/110	0/110	0/110
-10~55	-10~55	-10~55	-10~55	-10~55	-10~55	-10~55
-25~24	-25~24	-25~24	-25~24	-25~24	-25~24	-25~24
-20~24	-20~24	-20~24	-20~24	-20~24	-20~24	-20~24
-20~35	-20~35	-20~35	-20~35	-20~35	-20~35	-20~35
71	74	77	80	80	80	80
6	6	6	6	6	6	6
			50 ~ 135			
1 / DOS-68-MW-VR -	+ 1 / DOS-246-MW-VR			2 / DOS-246-MW-VR		



^{1.} Value measured according to harmonized standard EN14511.

2. Refrigerant leakage contributes to climate change. Refrigerants with a lower global warming potential (GWP) contribute less to global warming when released into the atmosphere than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. Therefore, if 1 kg of this refrigerant were released into the atmosphere, the impact on global warming would be 2088 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. If necessary, always contact qualified personnel.

3. To calculate the additional refrigerant charge, refer to the labels located inside and outside the unit.

4. In combinations of multiple outdoor units, the diameters indicated refer to the section up to the first branch, with an equivalent length of less than 90 m.

5. Space between the combined units = 100 mm.

6. To determine the power of the connectable hydronic modules, consult the installation manual.

Model			M-VR-OV-1908-SG	M-VR-OV-1962-SG	M-VR-OV-2016-SG	M-VR-OV-2072-SG		
Power		HP	68	70	72	74		
Combination			280+450+560+615	280+500+560+615	280+560+560+615	280+560+615+615		
Rated capacity		kW	190.50	195.90	201.50	2070		
Nominal absorbed power	Cooling	kW	52.28	53.81	56.64	59.35		
Energy efficiency coefficient (nominal)		EER1	3.64	3.64	3.56	3.49		
Rated capacity		kW	213.50	220.00	226.50	232.50		
Nominal absorbed power	Heating	kW	54.82	56.84	59.06	60.75		
Energy performance coefficient (nominal)		COP1	3.89	3.87	3.83	3.83		
Electrical Data								
Power supply		Ph-V-Hz		3-380~	-415-50			
Maximum current		A	159.80	167.50	168.50	169.50		
Refrigerant Circuit Data								
Refrigerant2		type (GWP)		R410A (2088)				
Q.ty of refrigerant pre-charge 3(tons of CO2 eq	uivalent)	Kg	46.2 (96.47)	47.4 (98.98)	47.4 (98.98)	47.9 (100.02)		
Compressor		nb. / type	6 / Scroll DC Inverter		7 / Scroll DC Inverter			
	Liquid	mm (inch)	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")		
Piping diameter4	Gas HP	mm (inch)	41.3 (1-5/8")	41.3 (1-5/8 ")	41.3 (1-5/8")	41.3 (1-5/8")		
	Gas LP	mm (inch)	44.5 (1-3/4")	44.5 (1-3/4")	44.5 (1-3/4")	44.5 (1-3/4")		
Product Specifications								
Dimensions ⁵	WxHxD	mm	5250x1690x775	5250x1690x775	5250x1690x775	5250x1690x775		
Net weight		Kg	1338	1398	1398	1398		
Volume of air treated	max	m³/h	58900	60000	60000	60000		
Available static pressure	std/max	Pa	0/110	0/110	0/110	0/110		
	Cooling	°C	-10~55	-10~55	-10~55	-10~55		
Operating range (outdoor temperature)	Heating	°C	-25~24	-25~24	-25~24	-25~24		
operating range (outdoor temperature)	Hydronic heating	°C	-20~24	-20~24	-20~24	-20~24		
	Domestic hot water (DHW)	°C	-20~35	-20~35	-20~35	-20~35		
Connectable air-to-air indoor units (max)		nb.	80	80	80	80		
Connectable air-to-water hydronic modules (max)6		nb.	6	6	6	6		
Capacity of connectable air-to-air indoor u	nits	%		50 ~	· 135			
Accessories								
Branch pipe kit for O.U. pairing		nb. / type	1 / DOS-68-MW-VR + 2 / DOS-246-MW-VR					



^{1.} Value measured according to harmonized standard EN14511.

2. Refrigerant leakage contributes to climate change. Refrigerants with a lower global warming potential (GWP) contribute less to global warming when released into the atmosphere than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. Therefore, if 1 kg of this refrigerant were released into the atmosphere, the impact on global warming would be 2088 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. If necessary, always contact qualified personnel.

3. To calculate the additional refrigerant charge, refer to the labels located inside and outside the unit.

4. In combinations of multiple outdoor units, the diameters indicated refer to the section up to the first branch, with an equivalent length of less than 90 m.

5. Space between the combined units = 100 mm.

6. To determine the power of the connectable hydronic modules, consult the installation manual.

M-VR-OV-2128-SG	M-VR-OV-2184-SG	M-VR-OV-2240-SG	M-VR-OV-2295-SG	M-VR-OV-2350-SG	M-VR-OV-2405-SG	M-VR-OV-2460-SG
76	78	80	82	84	86	88
280+615+615+615	335+615+615+615	400+615+615+615	450+615+615+615	500+615+615+615	560+615+615+615	615+615+615+615
212.50	218.00	224.50	229.50	234.90	240.50	246.00
62.05	63.76	65.33	67.02	68.56	71.39	74.10
3.42	3.42	3.44	3.42	3.43	3.37	3.32
238.50	244.50	252.00	257.00	263.50	270.00	276.00
62.44	64.11	66.04	67.67	69.69	71.91	73.60
3.82	3.81	3.82	3.80	3.78	3.75	3.75
			3-380~415-50			
170.50	171.10	184.50	186.30	194.00	195.00	196.00
			D 440 A (2000)			
			R410A (2088)			(
48.4 (101.06)	49.5 (103.35)	51 (106.49)	51.5 (107.53)	52.7 (110.04)	52.7 (110.04)	53.2 (111.08)
	7 / Scroll I				8 / Scroll DC Inverter	
22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")
41.3 (1-5/8")	41.3 (1-5/8")	41.3 (1-5/8")	41.3 (1-5/8")	41.3 (1-5/8")	41.3 (1-5/8")	41.3 (1-5/8")
44.5 (1-3/4")	44.5 (1-3/4")	44.5 (1-3/4")	44.5 (1-3/4")	44.5 (1-3/4")	44.5 (1-3/4")	44.5 (1-3/4")
5250x1690x775	5250x1690x775	5660x1690x775	5660x1690x775	5660x1690x775	5660x1690x775	5660x1690x775
1398	1411	1480	1480	1540	1540	1540
60000	60600	63000	64900	66000	66000	66000
0/110	0/110	0/110	0/110	0/110	0/110	0/110
-10~55	-10~55	-10~55	-10~55	-10~55	-10~55	-10~55
-25~24	-25~24	-25~24	-25~24	-25~24	-25~24	-25~24
-20~24	-20~24	-20~24	-20~24	-20~24	-20~24	-20~24
-20~35	-20~35	-20~35	-20~35	-20~35	-20~35	-20~35
80	80	80	80	80	80	80
6	6	6	6	6	6	6
			50 ~ 135			
1 / DOS-68-MW-VR -	- 2 / DOS-246-MW-VR			3 / DOS-246-MW-VR		



^{1.} Value measured according to harmonized standard EN14511.

2. Refrigerant leakage contributes to climate change. Refrigerants with a lower global warming potential (GWP) contribute less to global warming when released into the atmosphere than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. Therefore, if 1 kg of this refrigerant were released into the atmosphere, the impact on global warming would be 2088 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. If necessary, always contact qualified personnel.

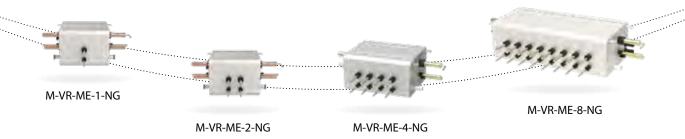
3. To calculate the additional refrigerant charge, refer to the labels located inside and outside the unit.

4. In combinations of multiple outdoor units, the diameters indicated refer to the section up to the first branch, with an equivalent length of less than 90 m.

5. Space between the combined units = 100 mm.

6. To determine the power of the connectable hydronic modules, consult the installation manual.

FLOW CONTROLLERS



Model				M-VR-ME-1-NG	M-VR-ME-2-NG	M-VR-ME-4-NG	M-VR-ME-8-NG
Pairs of connections for indoor units			q.ty	1	2	4	8
Max. number of connectable indoor units	for each pair of conn	ections1		8	8	8	8
Max. Humber of confrectable indoor units	for each flow control	ler		8	16	32	64
Max. capacity of connectable indoor units	for each pair of conn	ections2	kW	16.00	16.00	16.00	16.00
max. capacity of conflectable filodor units	for each flow control	ler ³	kW	16.00	28.00	45.00	85.00
Electrical Data							
Power supply			Ph-V-Hz		1-220~2	40V-50Hz	
Refrigerant Circuit Data							
		Liquid	mm (inch)	9.52 (3/8")	9.52 (3/8")	12.7 (1/2")	12.7 (1/2")
	Outdoor unit side	Gas HP	mm (inch)	19.05 (3/4")	19.05 (3/4")	22.2 (7/8")	22.2 (7/8")
Piping diameter (a saldare)		Gas LP	mm (inch)	22.2 (7/8")	22.2 (7/8")	28.6 (1-1/8")	28.6 (1-1/8")
	Indeed on internal	Liquid	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52
	Indoor uni side Gas		mm	12.7 / 15.9	12.7 / 15.9	12.7 / 15.9	12.7 / 15.9
Product Specifications							
Dimensions	WxHxD mn		mm	340x250x388	340x250x388	460x250x388	784x250x388
Net weight			Kg	12	14.5	20.6	33
Condensate drain				Necessary	Necessary	Necessary	Necessary



^{1.} Any indoor units connected to the same pair of connections must operate in the same operating mode.
2. I.U.s with capacities from 16 to 30 kW can be connected to the heat cost allocators with 2 to 8 connections, using the DIS-180-1 branch kit which occupies 2 pairs of connections.
3. In case of connection of hydronic modules, the maximum capacity increases to 32 kW (2 connections), 64 kW (4 connections) and 96 kW (8 connections).

HYDRONIC MODULE



M-VR-HM-16-NG M-VR-HM-30-NG

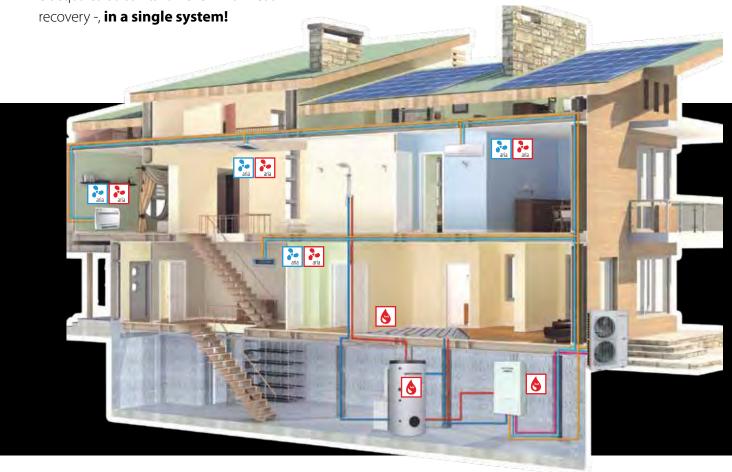
Model			M-VR-HM-16-NG	M-VR-HM-30-NG		
Dated canacity	Domestic hot water	kW	4.50 (3.60~16.00)	4.50 (3.60~30.00)		
Rated capacity	Hydronic heating	kW	16.00	30.00		
Maximum delivery water tempera	nture	°C	55	55		
Electrical Data						
Power supply		Ph-V-Hz	1-220~2	240-50Hz		
Hydraulic Dats						
	Brand	type	Braze-welded plates	Braze-welded plates		
Water/freon heat exchanger	Water flow	m ³ /h	2.76	5.16		
,	Pressure drop	kPa	27.5	38.5		
Circulation pump			Not in	cluded		
Water connections	Diameter	mm	25	25		
Water connections	Thread	Inch	G1	G1		
Operating pressure Min/Max	Max	bar	3	3		
Expansion vessel			Not included			
Refrigerant Circuit Data						
Dining diameter	Liquid	nama (in sh.)	9.52 (3/8")	9.52 (3/8")		
Piping diameter	Gas	mm (inch)	15.9 (5/8")	22.2 (7/8")		
Product Specifications						
Dimensions	WxHxD	mm	515x606x330	515x606x330		
Net weight		kg	36	40		
Condensate drain			Necessary			
Wired control			Included			
Controls	Climate curve		Available			
Accessories						
Branch pipe kit for connection to f	low divider		=	DIS-180-1		





MW HYBRID VRF HEAT PUMP SYSTEM

Heating, cooling and domestic hot water e acqua calda sanitaria - even with heat



no more traditional systems

MW HYBRID (VRF system + hydronic module) is a combination that replaces a traditional system consisting of two separate systems (air conditioning + traditional boiler).

free hot water

In cooling mode, heat is recovered to produce viene **free** domestic hot water.

hybrid system

MW HYBRID is born from the innovative union of two technologies:

- **1**. Direct expansion technology, cools or heats rooms thanks to the MW HYBRID indoor units.
- **2.** Hydronic technology, heating occurs through the hydronic module that powers low temperature systems such as radiant panels and high efficiency radiators. The MW HYBRID system is able to produce domestic hot water.



Air - to - Air

Direct expansion cooling and heating.









The air-to-air mode with the use of direct expansion indoor units ensures rapid achievement of the desired comfort.

Air - to - Water

Heating and domestic hot water production with hydromodule, cooling with direct expansion units (mandatory installation).







....



FLOOR HEATING

HIGH-EFFICIENCY RADIATORS

DOMESTIC HOT WATER

In this configuration, the MW HYBRID system can be used in the winter to produce domestic hot water and to heat internal environments using radiant panels (or high-efficiency radiators). In the summer, when the indoor direct expansion units work in cooling mode, it is possible to produce domestic hot water by recovering the heat that would otherwise be dispersed by the outdoor unit.

Air - to - Air & Air - to - Water

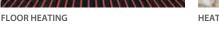
Combined use of the two technologies.

















DOMESTIC HOT WATER

MW HYBRID heats using both indoor direct expansion units and by powering a radiant panel system (or high efficiency radiators) and produces domestic hot water. The operating priority can be selected by the user.

MW HYBRID COMPONENTS



OUTDOOR UNITS

These units allow to recover, in the summer period, the condensation heat that would normally be dissipated in the environment. This heat is directed to the hydromodule, which produces domestic hot water for free.



HYDRONIC MODULE

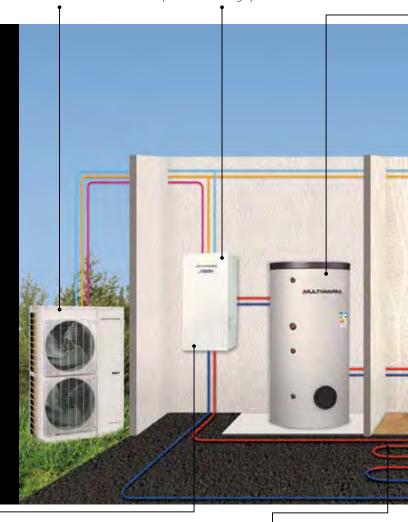
Heat exchanger for the production of domestic hot water and water for low temperature heating systems.

360° comfort **all year round**

MW HYBRID guarantees a complete solution for climate control of all environments all year round.

It is an economical system, which reduces CO2 emissions, is able to guarantee internal comfort and produce domestic hot water.

MW HYBRID uses 1-Phase and 3-Phase outdoor units, of different capacities, to which up to 13 indoor units and 2 hydronic modules can be connected.





HYDRONIC MODULE CONTROL

Multifunction control panel for managing the hydronic part (remote control).



RADIANT PANELS

They heat the home with a pleasant thermal gradient (not provided by MULTIWARM).



MW HYBRID COMPONENTS



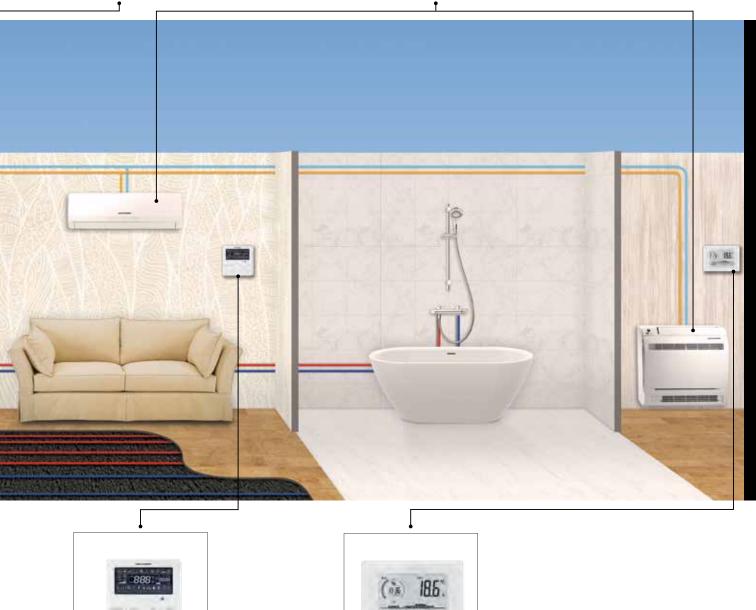
DOMESTIC HOT WATER TANK

Accumulates and supplies domestic hot water produced by the system.



DIRECT EXPANSION INDOOR UNITS

Wall-mounted, cassette, ducted, console, floor/ceiling, recessed floor models.





CONTROL PANEL

Control panel for managing direct and hydronic expansion with integrated temperature sensor.



ROOM THERMOSTAT

Possibility of integration with thirdparty room thermostat (not supplied by MULTIWARM).



ENERGY SAVING



MW HYBRID runs on free renewable energy!

Being a highly energy efficient heat pump system, MW HYBRID takes 75-80% of the energy it uses from the outside air.

For every kW of electricity consumed, 3 kW are taken for free from the outside air.

The thermal power released into the environment is 4 times the electrical power absorbed.

MW HYBRID does not waste energy but uses it to heat water, how?

During the summer season, while the indoor unit are working in cooling mode, **the condensation heat** is not dispersed into the external environment; **it is recovered inside the hydromodule to produce FREE domestic hot water**.

FREE DHW IN SUMMER WITH CONDENSING

IN SUMMER WITH CONDENSING HEAT RECOVERY



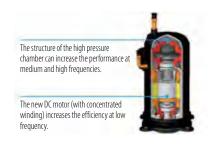
TOTAL INVERTER TECHNOLOGY

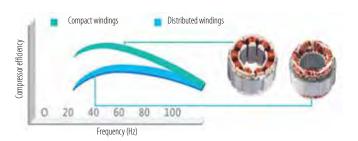


DC Inverter Compressors and Fans

ADVANTAGES

- Maximizing efficiency performance.
- > Reduction of energy consumption and operating costs.





EASY INSTALLATION AND MAINTENANCE



Automatic addressing of units

The indoor and outdoor units are addressed automatically and not manually. The outdoor unit, through a particular setting, recognizes the various indoor units present in the system reducing possible risks of error.

Can-bus communication system

MW HYBRID adopts a faster, more reliable and anti-interference communication system (between outdoor unit, indoor units and hydromodule).

Maintenance

Maintenance of MW HYBRID is simple thanks to the 3 self-diagnosis functions:

- 1. automatic detection of unit error type;
- 2. automatic start of diagnostic operation;
- 3. real-time anomaly detection.

360° COMFORT



Ultra-fast comfort

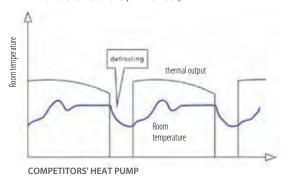
By using direct expansion technology and radiant floor heating at the same time, you can achieve maximum winter comfort by heating rooms quickly and economically.

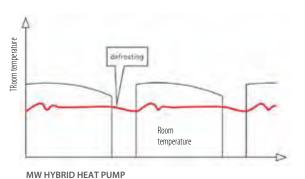
"Continuous heating" effect

MW HYBRID is equipped with intelligent defrosting as it uses, when possible, the thermal energy of the domestic hot water tank.

This generates the "continuous heating" effect with the following advantages:

- > the ambient temperature is stable;
- > there is no draft (skin effect).





Quiet operation

The MW HYBRID system is able to establish when to activate the "night silent mode" (based on the outdoor temperature and the internal load): the outdoor unit operates with **noise emissions lower than 45 dB(A)**.

Silent mode can be activated in:

AUTOMATIC

Under low load conditions, at night, the system automatically activates silent mode.

MANUAL

In particular applications where low noise is required, the system can force the unit to operate at reduced speeds, thus containing noise emissions.



DHW PRODUCTION



Range of use

- **Eco Function (recommended)**: max water temperature 48° C.
- > **Power Function**: max water temperature 55° C.
- **Fast Power Function**: required water temperature higher than 55° C (through integration with electric resistance).

Special applications

- > **Sunflower**: domestic hot water is heated during the hottest hours of the day (based on the highest outside temperature recorded the previous day) to achieve maximum energy savings.
- **Auto**: sets the set point temperature automatically based on the outside temperature.
- > Sterilize: anti-legionella cycle 65-70° C.
- > **Rapid**: it starts the compressor and the electric resistance at the same time to heat, in a short time, water for sanitary use or for hydronic heating.

WATER TEMPERATURE

48°C
ECO function







Sterilize function

Through the hydronic module of MW HYBRID system, with a simple function settable from the wired control, it is possible to program sterilization cycles at regular intervals (from 1 to 60 days, it is recommended to carry out at least one cycle per month) or carry out a single cycle.

With a thermal shock, temperatures between $60\sim70^{\circ}$ C are reached which guarantee the elimination of any bacteria.



THE RANGE OF MW HYBRID VRF SYSTEM

OUTDOOR UNITS



12.10 kW	14.00 kW	16.00 kW
1-Phase	1-Phase	1-Phase
M-VH-OV-120-NG	M-VH-OV-140-NG	M-VH-OV-160-NG



22.40 kW	28.00 kW
3-Phase	3-Phase
M-VH-OV-224-SG	M-VH-OV-280-SG

HYDRONIC MODULE



16.00 kW
1-Phase
M-VH-HM-160-NG

TANKS



200 Liters	300 Liters	500 Liters
WT-XL-DW1-200 C-1	WT-XL-DW1-300 C-1	WT-XL-DW1-500 C-1

NOTE: Third party tanks can also be used.

INDOOR UNITS

Applicable indoor units for air/air operation on page 101

MW HYBRID IS MADE UP OF 5 OUTDOOR UNITS TO WHICH UP TO MAX 13 INDOOR UNITS AND 2 HYDRONIC MODULES CAN BE CONNECTED, DEPENDING ON THE CAPACITY OF THE OUTDOOR UNIT

3 SINGLE PHASE MODELS

The 1-Phase outdoor units with horizontal air discharge are available in 12.10 kW, 14.00 kW and 16.00 kW models.
All the compressors of the 1-Phase models are Rotary DC Inverter.

2 THREE-PHASE MODELS

The 3-Phase outdoor units with vertical air discharge are available in 22.40 kW and 28.00 kW models. All the compressors of the 3-Phase models are Scroll DC Inverter.

POWER AND NUMBER OF CONNECTABLE INDOOR UNITS

Model	Min~Max power of connectable I.U.	Min~Max number of connectable I.U.	Max nb. of connectable hydronic modules	e Conto Termico 2.0*	Ecobonus*
M-VH-OV-120-NG	80~110%	1~6	1	/	/
M-VH-OV-140-NG	80~110%	1~7	1	/	/
M-VH-OV-160-NG	80~110%	1~8	1	/	/
M-VH-OV-224-SG	80~110%	1~10	2	/	
M-VH-OV-280-SG	80~110%	1~13	2	/	/

^{*} For Italian market only.

MAXIMUM COMPACTNESS FOR ALL OUTDOOR UNITS

12.10 - 14.00 - 16.00 kW



22.40 - 28.00 kW



L 900 x H 1345 x D 340 (mm)

L 1340 x H 1605 x D 765 (mm)



Operating ranges of outdoor units

The **VRF MW HYBRID** system features a very wide external temperature operating range, ensuring new design flexibility.







COOLING MODE

Outdoor temperature from -5° to 50° C



HYDRONIC HEATING MODE

Outdoor temperature from -15° to 21° C Water temperature from 25° to 52° C



HEATING MODE

Outdoor temperature from -15° to 24° C



DOMESTIC HOT WATER PRODUCTION

Outdoor temperature from -15° to 43° C Water temperature from 35° to 55° C



OUTDOOR UNITS

5 CAPACITIES

12.10~28.00 kW

R410A

Refrigerant gas



DC Inverter compressors guarantee total reliability thanks to high energy efficiency and silence. In addition, they allow a reduction in vibrations and accurate control of the operating frequency.

M-VH-OV-224-SG

M-VH-OV-280-SG

M-VH-OV-120-NG M-VH-OV-140-NG M-VH-OV-160-NG

M-VH-OV-224-SG M-VH-OV-280-SG Model M-VH-OV-120-NG M-VH-OV-140-NG M-VH-OV-160-NG Nominal Data Rated capacity kW 12.10 14.00 16.00 22.40 28.00 Cooling kW Rated absorbed power 3.05 3.98 4.85 5.35 7.70 Energy efficiency coefficient (rated) EER1 3.97 3.52 3.30 4.19 3.64 Rated capacity kW 14.00 16.50 18.50 25.00 31.50 Heating Rated absorbed power kW 3.30 4.10 4.67 5.80 7.60 Energy performance coefficient (rated) COP1 4.24 4.02 3.96 4.31 4.14 Seasonal Data 7.79 7.58 Cooling SEER2 8.08 7.73 8.46 Seasonal energy efficiency index Heating SCOP2 4.17 4.11 4.04 5.58 5.50 Electrical data Ph-V-Hz 1-220~240V-50Hz Power supply 27.00 31.00 16.10 20.90 Maximum current 33.00 Refrigerant circuit data type (GWP) R410A (2088) Refrigerant3

Q.ty of refrigerant pre-charge4 (tons of CO2 equiva	llent)	Kg	5 (10.4)	5 (10.4)	5 (10.4)	10.5 (21.9)	11 (23)	
Compressor		nb. / type		1 / Rotary DC Inverter		1 / Scroll DC Inverter		
	Liquid	mm (inch)	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	
Piping diameter	Gas	mm (inch)	15.9 (5/8 ")	15.9 (5/8")	19.05 (3/4")	19.05 (3/4")	22.2 (7/8")	
	High pressure gas	mm (inch)	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	15.9 (5/8")	15.9 (5/8")	
Product Specifications								
Dimensions	LxHxD	mm	900x1345x340	900x1345x340	900x1345x340	1340x1605x765	1340x1605x765	
Net weight		Kg	113	113	113	295	295	
Sound power level	max	dB(A)	72	72	72	81	81	
Sound pressure level at 1 m	max	dB(A)	55	56	58	57	58	
Volume of air treated	max	m3/h	6000	6300	6600	14000	14000	
	Cooling	°C			-5~50			
	Air heating	°C			-15~24			
	Hydronic heating	°C			-15~21			
	Domestic hot water (DHW)	°C			-15~43			
	Cooling + DHW	°C			-5~43			
	Air heating + DHW	°C			-15~24			
Water circuit operating limits	Hydronic heating	°C			25~52			
water circuit operating illfills	Domestic hot water (DHW)	°(35~55			
Connectable air-to-air indoor units (min - max) ⁵			1~6	1~7	1~8	1~10	1~13	
Connectable hydronic modules (max)		nb.	1	1	1	2	2	

1. Value measured according to the harmonized standard EN14511.

80~110

4. To calculate the additional refrigerant charge, refer to the labels located inside and outside the unit.

5. At least 1 direct expansion indoor unit is mandatory.

Capacity of connectable air-to-air indoor units



^{1.} Value Treasured according to the harmonized standard LN14315.
2. EU Regulation No. 206/2012 - Value measured according to the harmonized standard EN14825.
3. Refrigerant leakage contributes to climate change. If 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 2088. If 1 kg of this refrigerant were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher 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. If necessary, always contact qualified personnel.



HYDRONIC MODULE



HIGH EFFICIENCY

A+ in combination with any size of outdoor unit

DHW PRODUCTION

105 L/h nominal 75-140 (min.-max. L/h) outdoor

DHW THERMAL POWER

4.50 kW nominal for DHW production 3.60-16.00 (min.-max. kW)

HEATING THERMAL POWER

16.00 kW for hydronic heating

CONTROLS

wired control included



M-VH-HM-160-NG

Model			M-VH-HM-160-NG
Data day and the	Domestic hot water1	kW	4.50 (3.60~16.00)
Rated capacity	Hydronic heating	kW	16.00
Maximum delivery water temperature		°C	55
Electrical data			
Power supply		Ph-V-Hz	1-220~240-50Hz
Electrical integration power (2 steps)		kW	1.50+1.50
Hydraulic data			
Water/freon heat exchanger		type	Braze-welded plates
	Brand	-	Wilo
Circulation pump	Water flow	m ³ /h	1.7
	Static pressure	m	6
Water connections	Diameter	mm	25
Water connections	Thread	Inch	G1
Expansion vessel	Volume	L	10
<u>'</u>	Pre-load	bar	1
Refrigerant circuit data			
	Liquid		9.52 (3/8")
Piping diameter	Gas	mm (inch)	15.9 (5/8")
	High pressure gas		12.7 (1/2")
Product Specifications			
Dimensions	LxHxD	mm	500x919x328
Net weight		kg	56

^{1.} Conditions: outdoor air 20°C DB (15°C WB), water inlet 15°C / outlet 52°C.



Hydronic module control

The hydronic module is equipped with a control that allows you to manage hydronic heating and provides various functions for managing domestic hot water.

SOME FUNCTIONS

- > **Sunflower**: domestic hot water is heated during the hottest hours of the day (based on the highest outside temperature recorded the previous day) to achieve maximum energy savings
- > **Auto**: sets the set point temperature automatically based on the outside temperature.
- > Sterilize: anti-legionella cycle 65-70° C.
- > **Rapid**: it starts the compressor and the electric resistance of the tank at the same time to heat, in a short time, water for sanitary use or for hydronic heating.

DHW STORAGE TANKS

Tanks for storage of domestic hot water

MULTIWARM offers a complete range of fixed coil tanks for the production of domestic hot water.

The Polywarm coated steel structure and the included magnesium anode, proportionate to the volume to be protected, ensure high protection against corrosion.

In the 200, 300 and 500 litre models the insulation, which is not removable, is made of expanded polyurethane (50 mm thick).

All tanks are externally coated in flexible PVC, which ensures excellent insulation, reducing heat loss to a minimum.



WT-XL-DW1-200 C-1 WT-XL-DW1-300 C-1 WT-XL-DW1-500 C-1

Model			WT-XL-DW1-200 C-1	WT-XL-DW1-300 C-1	WT-XL-DW1-500 C-1		
Net storage volume		liters	189	291	498		
Storage material		-		Polywarm-coated steel			
Heating element power (optional)		kW		1.50			
Exchanger surface		m2	2.00	3.40	5.40		
Insulation thickness		mm		50			
Maximum water temperature		°C	90				
Dimensions	Diameter	mm	550	650	750		
DITTETISIONS	Height	mm	1440	1500	1800		
Net weight		kg	96 130		174		
	Domestic water inlet	inch	3/4"	1"	1"		
Canastians	Domestic hot water outlet	inch	1″1/4	1″1/4	1″1/4		
Connections	Recirculation	inch	3/4"	1"	1"		
	Drain	inch	1″1/4	1″1/4	1″1/4		
Energy efficiency class *			В	В	C		

^{*} ERP ready 2017 (EU regulation n.814/2013).

STOI	RAGE	EXCHANGER				
Maximum pressure	Maximum temperature	Maximum pressure Maximum temperature				
10 bar	90° C	12 bar	110°C			

TANK FEATURES

USE

Production and storage of domestic hot water (DHW). All hydraulic connections on the back, front connections and flange are aligned for quick and easy installation.

> MATERIALS AND FINISHES

Steel coated in Polywarm® (ACS - SSICA - EN 16421 certifications) suitable for drinking water pursuant to Ministerial Decree no. 174 of 06.04.04.

> HEAT EXCHANGER

Fixed heat exchanger in steel coated in Polywarm®

> RIGID INSULATION

Highly insulating expanded polyurethane.

> CATHODIC PROTECTION

Magnesium anode.

DRAIN

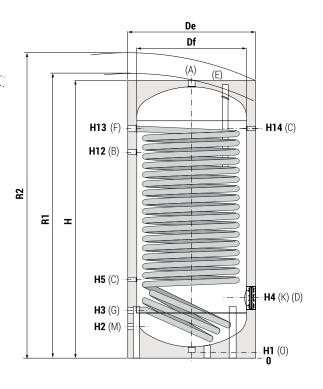
Drain through sleeve at the bottom.

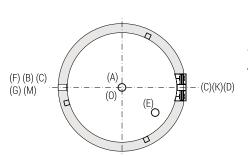
> COUNTERFLANGE - GASKETS

Gaskets in food-grade silicone rubber (Ministerial Decree no. 174 of 2004); operating resistance up to 200° C.

Carbon steel head with Polywarm® treatment and provision for electrical resistance.







TANK DIAGRAMS AND DIMENSIONS

Madal	Volume	Weight	Df	Н	De	R2	H1	H2	Н3	H4	H5	H12	H13	H14	K	М	В	А	D
Model	[lt]	[Kg]							[mm]							(Gas Connect	tions F (inch))
200	188.8	96	//	1440	550	1560	71	215	285	325	405	1055	1190	1190	Øi120/Øe180	3/4"	3/4"	1" 1/4"	1" 1/2"
300	290.5	130	//	1500	650	1650	71	241	321	381	431	1091	1211	1211	Øi120/Øe180	1″	1"	1" 1/4"	1" 1/2"
500	497.4	174	//	1800	750	1960	71	266	346	411	466	1326	1486	1486	Øi120/Øe180	1″	1"	1" 1/4"	1" 1/2"

CONNECTIONS

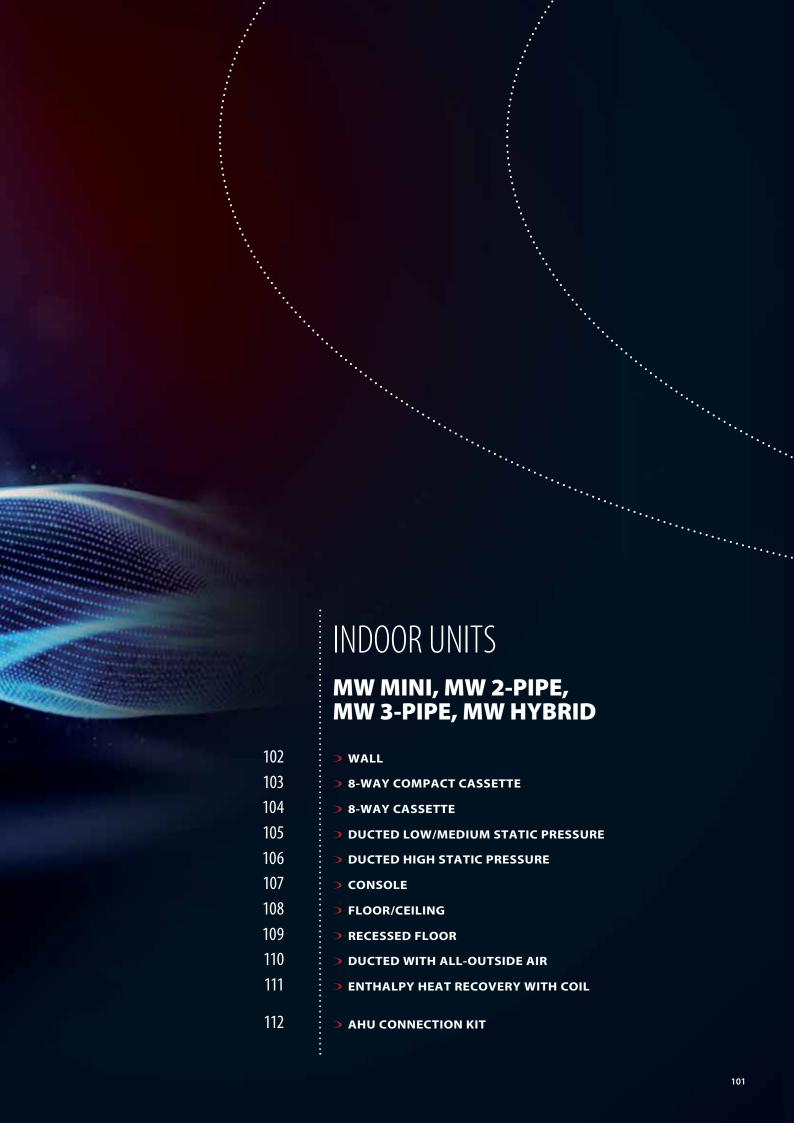
Α	Domestic hot water outlet	G	Primary circuit outlet 1" 1/4" Gas F
В	Recirculation connection	K	Inspection flange
C	Connection for instrumentation 1/2" Gas F	М	Domestic water inlet
D	Connection for electrical integration	N	Connection for instrumentation 1/2" Gas F
E	Connection for magnesium anode 1" 1/4" Gas F	0	Drain 1" 1/4" Gas F
F	Primary circuit inlet 1" 1/4" Gas F		

OPTIONAL ACCESSORIES

- > 1.5 Kw integrative electric resistance (WT-EH-15-C).
- > Titanium anode for 200 and 300-liter tanks (WT-AT-2-4-C).
- > Titanium anode for 500-liter tanks (WT-AT-5-C).

NOTE: Third-party accessories can also be used.





WALL

7 CAPACITIES

1.50~7.10 kW

WASHABLE FILTER better air quality

CONTROLS

standard remote control optional wired control

ELEGANT & COMPACT DESIGN

209 mm depth for models from 1.50 to 3.60 kW

SELF-DIAGNOSIS

M-V-WLA-151~711-G





Model			M-V-WLA-151-G	M-V-WLA-221-G	M-V-WLA-281-G				
Control (included)			Remote control						
Rated capacity	Cooling	kW	1.50	2.20	2.80				
nateu capacity	Heating	kW	1.80	2.50	3.20				
Electrical data									
Power supply		Ph-V-Hz		1-220~240V-50Hz					
Power absorption		W	20	20	20				
Product specifications									
Dimensions	WxHxD	mm	845x289x209	845x289x209	845x289x209				
Net weight		Kg	10.5	10.5	10.5				
Sound pressure level at 1 m	H/M/L	dB(A)	35/33/30	35/33/30	35/33/30				
Volume of air treated	H/M/L	m3/h	500/440/300	500/440/300	500/440/300				
Connection diameter	Liquid/Gas	mm (inch)		6.35 (1/4") / 9.52 (3/8")					
Connection diameter	Condensate	mm	20	20	20				
Optional parts									
Wired control			M-V-CW-SD1-G (LCD) / M-V-CW-TW1-G (touch) / M-V-CW-HB1-G (simplified)						
Centralized control			M-V-CC-T255-G / M-V-CC-T32-G (simplified)						

Model			M-V-WLA-361-G	M-V-WLA-451-G	M-V-WLA-561-G	M-V-WLA-711-G				
Control (included)			Remote control							
Datad canacity	Cooling	kW	3.60	4.50	5.60	7.10				
Rated capacity	Heating	kW	4.00	5.00	6.30	7.50				
Electrical data										
Power supply		Ph-V-Hz		1-220~2	40V-50Hz					
Power absorption		W	25	35	50	65				
Product specifications										
Dimensions	WxHxD	mm	845x289x209	970x300x224	1078xx325x246	1078xx325x246				
Net weight		Kg	10.5	12.5	16	16				
Sound pressure level at 1 m	H/M/L	dB(A)	38/35/31	43/40/37	43/41/37	44/41/37				
Volume of air treated	H/M/L	m3/h	630/460/320	850/580/500	1100/850/650	1200/850/650				
Connection diameter	Liquid/Gas	mm (inch)	6.35 (1/4") /	12.74 (1/2")	9.52 (3/8")	/ 15.9 (5/8 ")				
Connection diameter	Condensate	mm	20	20	20	20				
Optional parts										
Wired control			M-V-CW-5D1-G (LCD) / M-V-CW-TW1-G (touch) / M-V-CW-HB1-G (simplified)							
Centralized control			M-V-CC-T255-G / M-V-CC-T32-G (simplified)							

8-WAY COMPACT CASSETTE 60x60



6 CAPACITIES

1.50~5.60 kW

COMPACT DESIGN

265 mm height for recessed installation in false ceilings

360° AIR DISTRIBUTION

INDIVIDUAL DEFLECTORS CONTROL

for better airflow management

WASHABLE FILTER

better air quality

CONDENSATE DRAIN PUMP INCLUDED

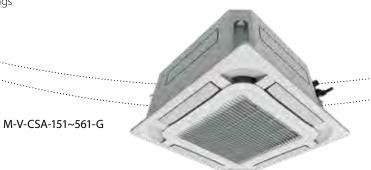
maximum height difference

1200 mm from panel edge

CONTROLS

Wi-Fi (optional)

standard remote control optional wired control



Model			M-V-CSA-151-G	M-V-CSA-221-G	M-V-CSA-281-G					
Control (included)			Remote control							
Dated canacity	Cooling	kW	1.50	2.20	2.80					
Rated capacity	Heating	kW	1.80	2.50	3.20					
Electrical data										
Power supply		Ph-V-Hz		1-220~240V-50Hz						
Power absorption		W	30	30	30					
Product specifications										
Dimensions	WxHxD	mm	570x265x570	570x265x570	570x265x570					
Net weight		Kg	17.5	17.5	17.5					
Sound pressure level at 1 m	H/M/L	dB(A)	33/30/25	36/31/25	36/33/28					
Volume of air treated	H/M/L	m3/h	460/420/370	500/460/370	570/480/420					
Connection diameter	Liquid/Gas	mm (inch)	6.35 (1/4") / 9.52 (3/8")							
Connection diameter	Condensate	mm	25	25	25					
Accessories										
Decorative panel				M-V-CGR-608-G						
Panel dimensions	WxHxD	mm	620x47.5x620	620x47.5x620	620x47.5x620					
Net weight		Kg	3	3	3					
Optional parts										
Wired control			M-V-CW-SD1-G (LCD) / M-V-CW-TW1-G (touch) / M-V-CW-HB1-G (simplified)							
Centralized control			M-V-CC-T255-G / M-V-CC-T32-G (simplified)							

Model			M-V-CSA-361-G	M-V-CSA-451-G	M-V-CSA-561-G	
Control (included)			Remote control			
,	Cooling	kW	3.60 4.50		5.60	
Rated capacity	Heating	kW	4.00	5.00	6.30	
Electrical data						
Power supply		Ph-V-Hz		1-220~240V-50Hz		
Power absorption		W	30	45	45	
Product specifications						
Dimensions	WxHxD	mm	570x265x570	570x265x570	570x265x570	
Net weight Kg		Kg	17.5	17.5	17.5	
Sound pressure level at 1 m	H/M/L	dB(A)	39/37/35	43/41/39	43/41/39	
Volume of air treated	H/M/L	m³/h	620/550/480	730/650/560	730/650/560	
Connection diameter	Liquid/Gas	mm (inch)	6.35 (1/4") / 12.74 (1/2")		9.52 (3/8") / 15.9 (5/8")	
Connection diameter	Condensate	mm	25	25	25	
Accessories						
Decorative panel				M-V-CGR-608-G		
Panel dimensions	WxHxD	mm	620x47.5x620	620x47.5x620	620x47.5x620	
Net weight		Kg	3	3	3	
Optional parts						
Wired control			M-V-CW-SD1-G (LCD) / M-V-CW-TW1-G (touch) / M-V-CW-HB1-G (simplified)			
Centralized control			M-V-CC-T255-G / M-V-CC-T32-G (simplified)			

8-WAY CASSETTE 84x84

4 CAPACITIES

7.10~14.00 kW

ULTRA COMPACT DESIGN

only **200 mm** high for the 7.10 kW model for installation in false ceilings

WASHABLE FILTER better air quality

INDIVIDUAL DEFLECTORS CONTROL

for better airflow management

CONDENSATE DRAIN PUMP INCLUDED

maximum height difference **1200 mm** from panel edge

CONTROLS

standard remote control optional wired control



M-V-CBA-712~1402-G



Model			M-V-CBA-712-G	M-V-CBA-902-G	
Control (included)			Remote control		
Datad sanasitu	Cooling	kW	7.10	9.00	
Rated capacity	Heating	kW	8.00	10.00	
Electrical data					
Power supply		Ph-V-Hz	1-220~240V-50Hz		
Power absorption		W	60	75	
Product specifications					
Dimensions	WxHxD	mm	840x200x840	840x240x840	
Net weight	Net weight Kg		21	22.5	
Sound pressure level at 1 m	H/M/L	dB(A)	37/35/32	40/36/31	
Volume of air treated	H/M/L	m³/h	1100/935/850	1400/1000/900	
Connection diameter	Liquid/Gas	mm (inch)	9.52 (3/8")	['] 15.9 (5/8")	
Connection diameter	Condensate	mm	25	25	
Accessories					
Decorative panel			M-V-CG	R-848-G	
Panel dimensions	WxHxD	mm	950x65x950	950x65x950	
Net weight Kg		Kg	6	6	
Optional parts					
Wired control			M-V-CW-SD1-G (LCD) / M-V-CW-TW1-G (touch) / M-V-CW-HB2-G (simplified)		
Centralized control			M-V-CC-T255-G / M-V-CC-T32-G (simplified)		

Model			M-V-CBA-1122-G	M-V-CBA-1402-G	
Control (included)			Remote control		
Detect consider	Cooling	kW	11,20	14,00	
Rated capacity	Heating	kW	12,50	16,00	
Electrical data					
Power supply		Ph-V-Hz	1-220~2	40V-50Hz	
Power absorption		W	100	160	
Product specifications					
Dimensions	WxHxD	mm	840x240x840	840x290x840	
Net weight		Kg	22,5	25	
Sound pressure level at 1 m	H/M/L	dB(A)	43/39/35	46/41/35	
Volume of air treated	H/M/L	m ³ /h	1550/1200/1000	1800/1450/1150	
Connection diameter	Liquid/Gas	mm (inch)	9,52 (3/8") / 15,9 (5/8")		
Connection diameter	Condensate	mm	25	25	
Accessories					
Decorative panel			M-V-CGR-848-G		
Panel dimensions	WxHxD	mm	950x65x950	950x65x950	
Net weight Kg		Kg	6	6	
Optional parts					
Wired control			M-V-CW-SD1-G (LCD) / M-V-CW-TW1-G (touch) / M-V-CW-HB2-G (simplified)		
Centralized control			M-V-CC-T255-G / M-V-CC-T32-G (simplified)		



DUCTED LOW/MEDIUM STATIC PRESSURE



5 CAPACITIES

2.20~5.60 kW

WASHABLE FILTER

better air quality

CONDENSATE DRAIN PUMP INCLUDED

maximum height difference **850 mm** from the exit hole

Ideal for cooling and heating small and medium-sized rooms

COMPACT MODEL

only **200 mm** high, **710 mm** wide and **462 mm** deep (2.20~3.60 kW)

CONTROLS

wired control included



M-V-DLA-222~562-G





Model			M-V-DLA-222-G	M-V-DLA-282-G	M-V-DLA-362-G		
Control (included)			Wired control				
Data disancity	Cooling	kW	2.20	2.80	3.60		
Rated capacity	Heating	kW	2.50	3.20	4.00		
Electrical data	·						
Power supply		Ph-V-Hz	1-220~240V-50Hz				
Power absorption		W	78	78	78		
Product specifications	Product specifications						
Dimensions	WxHxD	mm	710x200x462	710x200x462	710x200x462		
Net weight		Kg	18.5	18.5	19.0		
Sound pressure level at 1 m	H/M/L	dB(A)	30/25/22	30/25/22	31/27/25		
Volume of air treated	H/M/L	m ³ /h	450/350/200	450/350/200	550/400/300		
Fan static pressure	Std/Max	Pa	15/30	15/30	15/30		
Connection diameter	Liquid/Gas	mm (inch)	6.35 (1/4") / 9.52 (3/8")		6.35 (1/4") / 12.74 (1/2")		
Connection diameter	Condensate	mm	25	25	25		
Optional parts							
Centralized control			M-V-CC-T255-G / M-V-CC-T32-G (simplified)				

Model			M-V-DLA-452-G	M-V-DLA-562-G			
Control (included)			Wired control				
Dated canacity	Cooling	kW	4.50	5.60			
Rated capacity	Heating	kW	5.00	6.30			
Electrical data							
Power supply		Ph-V-Hz	1-220~2	40V-50Hz			
Power absorption		W	78	117			
Product specifications							
Dimensions	nensions WxHxD mm		1010x200x462	1010x200x462			
Net weight	Net weight Kg		24.0	25.0			
Sound pressure level at 1 m	H/M/L	dB(A)	33/29/27	35/31/29			
Volume of air treated	H/M/L	m ³ /h	750/550/400	850/700/550			
Fan static pressure	Std/Max	Pa	15/30	15/30			
Connection diameter	Liquid/Gas	mm (inch)	6.35 (1/4") / 12.74 (1/2")	9.52 (3/8") / 15.9 (5/8")			
Connection diameter	Condensate	mm	25	25			
Optional parts							
Centralized control			M-V-CC-T255-G / M-V-CC-T32-G (simplified)				

DUCTED HIGH STATIC PRESSURE



8 CAPACITIES

7.10~28.00 kW

ULTRA COMPACT DESIGN only 300 mm high for the 7.10 and 18.00 kW models

WASHABLE FILTER

better air quality

CONDENSATE DRAIN PUMP INCLUDED maximum height difference **1100 mm** from the outlet

hole for models from 7.10 to 18.00 kW

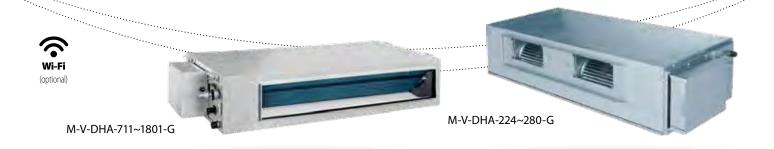
Ideal for cooling and heating medium and large sized rooms

wired control included

CONTROLS

5 FAN SPEEDS

auto, low, med, high, turbo



Model			M-V-DHA-711-G	M-V-DHA-901-G	M-V-DHA-1121-G	M-V-DHA-1401-G	
Control (included)			Wired control				
Detect or a steri	Cooling	kW	7.10	9.00	11.20	14.00	
Rated capacity	Heating	kW	8.00	10.00	12.50	16.00	
Electrical data							
Power supply		Ph-V-Hz	1-220~240V-50Hz				
Power absorption		W	100	140	160	220	
Product specifications							
Dimensions	WxHxD	mm	1000x300x700	1400x300x700	1400x300x700	1400x300x700	
Net weight		Kg	43	57	57	58	
Sound pressure level at 1 m	H/M/L	dB(A)	38/36/34	40/37/35	40/38/36	42/39/37	
Volume of air treated	H/M/L	m3/h	1250/1050/950	1800/1450/1250	2000/1600/1400	2350/1900/1650	
Fan static pressure	Std/Max	Pa	90/200	90/200	90/200	90/200	
Connection diameter	Liquid/Gas	mm (inch)	9.52 (3/8") / 15.9 (5/8")				
Connection diameter	Condensate	mm	25	25	25	25	
Optional parts							
Centralized control			M-V-CC-T255-G / M-V-CC-T32-G (simplified)				

Model			M-V-DHA-1601-G	M-V-DHA-1801-G	M-V-DHA-224-G	M-V-DHA-280-G	
Control (included)			Wired control				
Dated capacity	Cooling	kW	16.00	18.00	22.40	28.00	
Rated capacity	Heating	kW	18.00	20.00	25.00	31.00	
Electrical data							
Power supply		Ph-V-Hz	1-220~240V-50Hz				
Power absorption		W	230	350	800	900	
Product specifications	Product specifications						
Dimensions	WxHxD	mm	1400x300x700	1400x300x700	1483x385x791	1686x450x870	
Net weight		Kg	58	58	82	105	
Sound pressure level at 1 m	H/M/L	dB(A)	44/41/38	49/47/44	54/52/49	55/52/50	
Volume of air treated	H/M/L	m³/h	2500/2000/1750	3000/2600/2000	4000/3600/3200	4400/4000/3600	
Fan static pressure	Std/Max	Pa	90/200	90/170	100/200	100/200	
Connection diameter	Liquid/Gas	mm (inch)	9.52 (3/8") / 19.05 (3/4") 9.52 (3,		9.52 (3/8") / 22.2 (7/8")		
Connection diameter	Condensate	mm	25	25	25	25	
Optional parts							
Centralized control			M-V-CC-T255-G / M-V-CC-T32-G (simplified)				



CONSOLE

5 CAPACITIES

2.20~5.00 kW

LOW SOUND IMPACT

only **27 dB(A)** for the 2.20 and 2.80 kW models

SELF-DIAGNOSIS
I FEEL FUNCTION

CONTROLS

remote control included optional wired control





M-V-CNA-22~50-G

Model			M-V-CNA-22-G	M-V-CNA-28-G		
Control (included)			Remote control			
Rated capacity	Cooling		2.20	2.80		
nateu capacity	Heating	kW	2.50	3.20		
Electrical data						
Power supply		Ph-V-Hz	1-220~2-	40V-50Hz		
Power absorption		W	15	15		
Product specifications						
Dimensions	WxHxD	mm	700x600x215	700x600x215		
Net weight		Kg	16	16		
Sound pressure level at 1 m	H/M/L	dB(A)	38/33/27	38/33/27		
Volume of air treated	H/M/L	m3/h	400/320/270	400/320/270		
Connection diameter	Liquid/Gas	mm (inch)	6.35 (1/4) /	/ 9.52 (3/8)		
Connection diameter	Condensate	mm	28	28		
Optional parts						
Wired control			M-V-CW-SD1-G (LCD) / M-V-CW-TW1-	G (touch) / M-V-CW-HB1-G (simplified)		
Centralized control			M-V-CC-T255-G / M-V-CC-T32-G (simplified)			

Model			M-V-CNA-36-G	M-V-CNA-45-G	M-V-CNA-50-G		
Control (included)			Remote control				
Rated capacity	Cooling	kW	3.60	4.50	5.00		
nateu capacity	Heating	kW	4.00	5.00	5.50		
Electrical data							
Power supply		Ph-V-Hz		1-220~240V-50Hz			
Power absorption		W	20	40	40		
Product specifications							
Dimensions	WxHxD	mm	700x600x215	700x600x215	700x600x215		
Net weight		Kg	16	16	16		
Sound pressure level at 1 m	H/M/L	dB(A)	40/37/32	46/43/39	46/43/39		
Volume of air treated	H/M/L	m³/h	480/400/300	680/600/500	680/600/500		
Connection diameter	Liquid/Gas	mm (inch)		6.35 (1/4) / 12.74 (1/2)			
Connection diameter	Condensate	mm	28	28	28		
Optional parts							
Wired control			M-V-CW-S	SD1-G (LCD) / M-V-CW-TW1-G (touch) / M-V-CW-HB1-G	(simplified)		
Centralized control			M-V-CC-T255-G / M-V-CC-T32-G (simplified)				

FLOOR/CEILING

WASHABLE FILTER

better air quality

CONTROLS

remote control included optional wired control

SELF-DIAGNOSIS

6 CAPACITIES 3.60~14.00 kW

COMPACT DESIGN 235 mm height for all models

I FEEL FUNCTION





M-V-FCA-361~1401-G

Model	lodel		M-V-FCA-361-G	M-V-FCA-561-G	M-V-FCA-711-G			
Control (included)			Remote control					
Dated canacity	Cooling	kW	3.60	5.60	7.10			
Rated capacity	Heating	kW	4.00	6.30	8.00			
Electrical data	·							
Power supply		Ph-V-Hz		1-220~240V-50Hz				
Power absorption		W	40	75	75			
Product specifications								
Dimensions	WxHxD	mm	870x235x665	870x235x665	1200x 235x665			
Net weight		Kg	25	31	31			
Sound pressure level at 1 m	H/M/L	dB(A)	36/32/28	44/41/38	44/41/38			
Volume of air treated	H/M/L	m3/h	650/610/530/460	850/800/700/600	1300/1220/1090/940			
Connection diameter	Liquid/Gas	mm (inch)	6.35 (1/4") / 12.74 (1/2")	9.52 (3/8")	/ 15.9 (5/8")			
Connection diameter	Condensate	mm	17	17	17			
Optional parts								
Wired control			M-V-CW-SD1-G (LCD) / M-V-CW-TW1-G (touch) / M-V-CW-HB1-G (simplified)					
Centralized control			M-V-CC-T255-G / M-V-CC-T32-G (simplified)					

Model			M-V-FCA-901-G	M-V-FCA-1121-G	M-V-FCA-1401-G		
Control (included)			Remote control				
Rated capacity	Cooling	kW	9.00	11.20	14.00		
nateu capacity	Heating	kW	10.00	12.50	16.00		
Electrical data							
Power supply		Ph-V-Hz		1-220~240V-50Hz			
Power absorption		W	140	160	160		
Product specifications							
Dimensions	WxHxD	mm	1200x235x665	1570x235x665	1570x235x665		
Net weight		Kg	31	40	42		
Sound pressure level at 1 m	H/M/L	dB(A)	47/43/39	47/44/42	50/48/44		
Volume of air treated	H/M/L	m³/h	1500/1380/1200/1020	1800/1700/1540/1400	2100/2000/1800/1480		
Connection diameter	Liquid/Gas	mm (inch)		9.52 (3/8") / 15.9 (5/8")			
Connection diameter	Condensate	mm	17	17	17		
Optional parts							
Wired control			M-V-CW-SD1-G (LCD) / M-V-CW-TW1-G (touch) / M-V-CW-HB1-G (simplified)				
Centralized control			M-V-CC-T255-G / M-V-CC-T32-G (simplified)				



RECESSED FLOOR













Model	Model		M-V-FYA-221-G	M-V-FYA-281-G	M-V-FYA-361-G		
Control (included)			Wired control				
Dated canacity	Cooling	kW	2.20	2.80	3.60		
Rated capacity	Heating	kW	2.50	3.20	4.00		
Electrical data							
Power supply		Ph-V-Hz		1-220~240V-50Hz			
Power absorption		W	35	35	43		
Product specifications							
Dimensions	WxHxD	mm	700x615x200	700x615x200	700x615x200		
Net weight		Kg	23	23	23		
Sound pressure level at 1 m	H/M/L	dB(A)	30/28/25	30/28/25	33/31/28		
Volume of air treated	H/M/L	m3/h	450/350/250	450/350/250	550/450/350		
Fan static pressure	Std/Max	Pa	10/40	10/40	10/40		
Connection diameter	Liquid/Gas	mm (inch)	6.35 (1/4)	/ 9.52 (3/8)	6.35 (1/4) / 12.74 (1/2)		
Connection diameter	Condensate	mm	25	25	25		
Optional parts							
Centralized control			M-V-CC-T255-G / M-V-CC-T32-G (simplified)				

Model			M-V-FYA-451-G	M-V-FYA-561-G	M-V-FYA-711-G		
Control (included)			Wired control				
Rated capacity	Cooling	kW	4.50	5.60	7.10		
nateu capacity	Heating	kW	5.00	6.30	8.00		
Electrical data							
Power supply		Ph-V-Hz		1-220~240V-50Hz			
Power absorption		W	45	80	90		
Product specifications							
Dimensions	WxHxD	mm	900x615x200	1100x615x200	1100x615x200		
Net weight		Kg	27	32	32		
Sound pressure level at 1 m	H/M/L	dB(A)	33/31/28	35/33/30	37/35/33		
Volume of air treated	H/M/L	m³/h	650/500/400	900/750/600	1100/900/700		
Fan static pressure	Std/Max	Pa	15/60	15/60	15/60		
Connection diameter	Connection disposed Liquid/Gas mm (inch)			9.52 (3/8)	/ 15.9 (5/8)		
Connection diameter	Condensate	mm	25	25	25		
Optional parts							
Centralized control			M-V-CC-T255-G / M-V-CC-T32-G (simplified)				

100% OUTDOOR AIR DUCTED

2 CAPACITIES

12.50~14.00 kW

All-air ducting allows fresh outside air to be introduced into the rooms without causing fluctuations in internal temperature.

CONTROLS

wired control included

WASHABLE FILTER

better air quality





M-V-DFA-12520~14020-G

Model			M-V-DFA-12520-G	M-V-DFA-14020-G		
Control (included)			Wired	control		
Rated capacity	Cooling1	Cooling ¹ kW 12.50		14.00		
nateu capacity	Heating2	kW	8.50	10.00		
Electrical data						
Power supply		Ph-V-Hz	1-220~2	40V-50Hz		
Power absorption		W	200/350	200/350		
Product specifications						
Dimensions	WxHxD	mm	1400x300x700	1400x300x700		
Net weight		Kg	54	54		
Sound pressure level at 1 m	H/M/L	dB(A)	46/50	46/50		
Volume of air treated	H/M/L	m3/h	1200/2000	1200/2000		
Fan static pressure	Std/Max	Pa	150/200	150/200		
Connection diameter	Liquid/Gas	mm (inch)	9.52 (3/8 ") ,	/ 15.9 (5/8")		
Connection diameter	Condensate	mm	25	25		
Application field (suctioned air	temp.)	°C	-7~45 BS			
Optional parts						
Centralized control			M-V-CC-T255-G / M-V-CC-T32-G			

^{1.} Conditions: intake air 35°C DB (28°C WB), delivery air 18°C. 2. Conditions: intake air 7° C DB (6° C WB), delivery air 22° C.

ENTHALPY HEAT RECOVERY WITH COIL



3 CAPACITIES

500~1000 m3/h

COMPACT DESIGN

880 mm wide, **340 mm** high and **1700 mm** deep for the 500 m3/h model

LOW SOUND IMPACT

55 dB(A) for the 500 m3/h model

FAN SPEED

5 + automatic

DAILY TIMER

FILTER AND HEAT EXCHANGER

easily removable

FILTER CLEANING

filter cleaning and replacement reminder

HIGH degree of filtration



M-V-THE-DX-500~1000-NG

Model	Model		M-V-THE-DX-500-NG	M-V-THE-DX-800-NG	M-V-THE-DX-1000-NG		
Control (included)			Wired control				
Data desperits	Cooling1	kW	8.50	12.00	14.50		
Rated capacity	Heating2	kW	4.00	10.60	12.00		
Heat exchange efficiency	·	%	73	74	73		
Electrical data							
Power supply		Ph-V-Hz		1-220~240V-50Hz			
Power absorption		W	270	440	640		
Product specifications							
Dimensions	WxHxD	mm	880x340x1700	1185x390x1800	1185x390x1800		
Net weight		Kg	120	158	158		
Sound power level	Hi	dB(A)	55	59	62		
Sound pressure level at 1 n	n	dB(A)	41.4	46.1	50.1		
Volume of air treated		m3/h	500	800	1000		
Fan static pressure		Pa	150	150	150		
Ducting flange	Diameter	mm	200	250	250		
Connection diameter	Liquid/Gas	mm (inch)	6.35 (1/4") / 12.74 (1/2")	9.52 (3/8") / 15.9 (5/8")	9.52 (3/8") / 15.9 (5/8")		
Connection diameter	Condensate	mm	25	25	25		
Application field (suctioned air temp.) °C			-25~48 BS				
Optional parts							
Centralized control			M-V-CC-T255-G / M-V-CC-T32-G (simplified)				

^{1.} Conditions: indoor air 27° C DB/19.5° C WB: outdoor air 35° C DB/28° C WB.

CONNECTIVITY LIMITATIONS

50-100%

The sum of the power of the indoor units + the power of the heat recovery unit must be between 50 and 100% of the nominal power of the outdoor unit.

30%

The maximum power of the recovery unit must not exceed 30% of the nominal power of the outdoor unit.

FUNCTIONS AVAILABLE FROM THE CONTROL

Linkage control

Automatic activation of the heat recovery unit via CAN-BUS communication if at least one indoor unit is active; shutdown if all indoor units are off.

Free cooling with automatic bypass

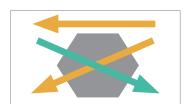
Available when the outside temperature drops below the inside temperature (e.g. during night hours). This function reduces the fan's energy consumption, prolonging the life of the exchanger.

OPERATING MODES



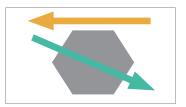
Heat exchange mode

In this mode, the exhaust air and the fresh air enter the exchanger.



Automatic mode

In this mode the unit automatically regulates the heat exchange.



By-pass mode

In this mode the exhaust air does not pass through the exchanger.



^{2.} Conditions: indoor air 20° C DB/19.5 C WB, outdoor air 3° C DB/6° C WB.

AHU CONNECTION KIT

113 > AHU EEV CONNECTION KIT

MECHANICAL VENTILATION

> ENTHALPY RECOVERY UNIT



115

AHU EEV CONNECTION KIT

5 MODELS

3.60~56.00 kW

CLEAN CONTACT

HIGH EFFICIENCY

fewer start & stop cycles of the outdoor unit thanks to VRF technology

ENERGY SAVINGS

using DC Inverter technology

CONTROL

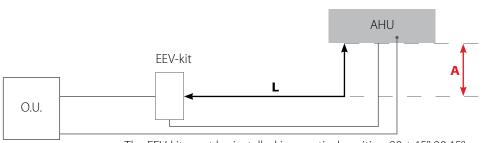
wired control included



Model			M-V-AHI	U-362-G	M-V-AHU-712-G		I	M-V-AHU-1402-0	G	
Control (included)			Wired	control	Wired control Wired control		Wired control			
Rated capacity	cooling kV		3.6	50		7.10			14.00	
nateu capacity	Heating	kW	4.0	00		8.00			16.00	
Cattable capacity	Cooling	kW	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00
Settable capacity	Heating	kW	3.20	4.00	5.00	6.30	8.00	10.00	12.50	16.00
Electrical data										
Power supply		Ph-V-Hz	1-220~24	40V-50Hz		1-220~240V-50Hz			1-220~240V-50Hz	
Power absorption		W	3	3		8			8	
Product specifications										
EEV kit dimensions	WxHxD	mm	203x8	5x326		203x85x326		203x85x326		
Control box dimensions	WxHxD	mm	334x11	11x284		334x111x284			334x111x284	
Net weight		Kg	1	0		10.5			10.5	
·	Liquid from 0.U. to kit	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")
Connection diameter	Liquid from kit to AHU	mm (inch)	6.35 (1/4")	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")
	Gas from O.U. to AHU	mm (inch)	9.52 (3/8")	12.7 (1/2")	12.7 (1/2")	15.9 (5/8")	15.9 (5/8")	15.9 (5/8")	15.9 (5/8")	15.9 (5/8")
Optional parts										
Centralized control			M-V-CC-T255-G / M-V-CC-T32-G (simplified)							

Model			M-V-AHU-2802-G					M-V-AHU-5602-0	G		
Control (included)			Wired control			Wired control					
Datad canacity	kW			28.00				56.00			
Rated capacity	Heating	kW			31.50				63.00		
Cattable conseits	Cooling	kW	22.40	28.00	33.50	40.00	45.00	50.40	56.00	84.00	
Settable capacity	Heating	kW	25.00	31.50	37.50	45.00	50.00	56.50	63.00	94.50	
Electrical data											
Power supply		Ph-V-Hz			1-220~240V-50Hz				1-220~240V-50Hz		
Power absorption		W			8			8			
Product specifications											
EEV kit dimensions	WxHxD	mm			203x85x326			246x120x500			
Control box dimensions	WxHxD	mm			334x111x284				334x111x284		
Net weight		Kg			10.5				13		
	Liquid from 0.U. to kit	mm (inch)	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	15.9 (5/8")	15.9 (5/8")	15.9 (5/8")	
Connection diameter	Liquid from kit to AHU	mm (inch)	9.52 (3/8")	9.52 (3/8")	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	15.9 (5/8")	15.9 (5/8")	19.05 (3/4")	
	Gas from O.U. to AHU	mm (inch)	19.05 (3/4")	22.2 (7/8")	25.4 (1")	25.4 (1")	28.6 (9/8")	28.6 (9/8")	28.6 (9/8")	31.8 (1-1/4")	
Optional parts											
Centralized control			M-V-CC-T255-G / M-V-CC-T32-G (simplified)								

L'EEV-KIT allows, through an electronic expansion valve regulated by an electronic control system (Control Box), the connection of an AHU to the outdoor unit of a VRF system. In this way, you can take advantage of the benefits of VRF technology.



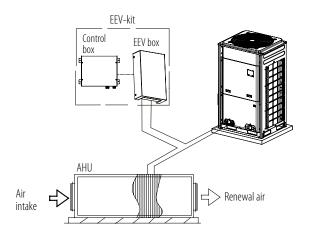
- The EEV-kit must be installed in a vertical position $90 \pm 15^{\circ} 90 \cdot 15^{\circ}$
- **A** The maximum height difference between EEV-kit and AHU is 2 metres.
- L The maximum distance of the liquid pipe between EEV-kit and AHU is 2 meters. To be considered in the maximum length of the refrigerant pipes.







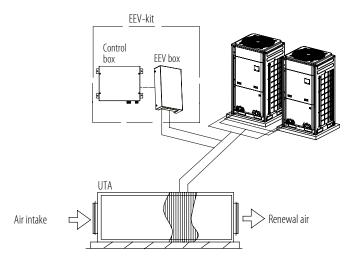
Connectivity



ONE-TO-ONE

An EEV-kit connected with a VRF outdoor unit.

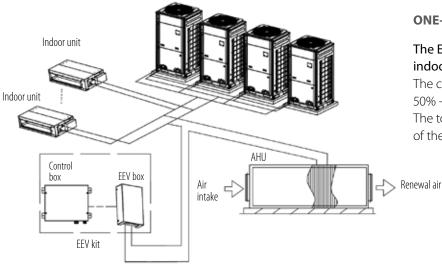
The capacity of the EEV-kit must be between 80% - 110% of the capacity of the outdoor unit.



ONE-TO-MORE

An EEV-kit connected with multiple VRF outdoor units.

The capacity of the EEV-kit must be between 50% - 110% of the external capacity.



ONE-TO-MORE (MIXED CONNECTION)

The EEV-kit is connected to a VRF system including indoor units.

The capacity of the EEV-kit must be between 50% - 110% of the capacity of the outdoor unit. The total capacity of the EEV-kit must not exceed 30% of the capacity of the outdoor unit.





ENTHALPY RECOVERY UNIT



4 CAPACITIES

150~500 m3/h

COMPACT DESIGN

1160 mm wide, 220 mm high and 700 mm deep for models from 150 to 250 m3/h

LOW SOUND IMPACT

43 dB(A) for the 150 m3/h model

VENTILATION SPEED

5 + automatic

DAILY TIMER

FILTER AND HEAT EXCHANGER

easily removable

FILTER CLEANING

filter cleaning and replacement reminder **HIGH** degree of filtration (F7)

CONTROL

wired control included



Model			M-V-THE-150-NG2	M-V-THE-250-NG2	M-V-THE-350-NG2	M-V-THE-500-NG2	
Control (included)			Wired control				
Heat exchange efficiency1		%	80	75	76	73	
Electrical data							
Power supply		Ph-V-Hz		1-220~2	40V-50Hz		
Power absorption		W	50	105	155	250	
Product specifications							
Dimensions	WxHxD	mm	1160x220x700	1160x220x700	1200x240x785	1358x240x785	
Net weight		Kg	50	50	60	71,5	
Sound power level		dB(A)	43	50	55	57	
Volume of air treated		m3/h	150	250	350	500	
Fan static pressure		Pa	100	100	100	100	
Ducting flange	Diameter	mm	150	150	150	185	
Application field (suctioned air t	emp.)	°(-15~50 DB (max UR 80%)				
Specific energy consumption2	SEC	kWh/m2.a	-35,1	-28,7	-	-	
SEC2 Class				В	-	-	

Reference standards: Ecodesign Directive EU 1253/2014 for Non-residential ventilation units (RVU) and residential ventilation units (RVU). Energy Labelling EU 1254/2014 Residential ventilation units (RVU).

1. Values relating to the following conditions: cooling efficiency: indoor air 27° C DB/20° C WB; outdoor air 35° C DB/29° C WB. Heating efficiency: indoor air 20° C DB/14° C WB; outdoor air 5° C DB/2° C WB.

2. Mandatory data only for residential ventilation units (RVU).

INDIVIDUAL USE ENTHALPY HEAT RECOVERY UNIT

Ventilation system that allows the enthalpic recovery of heat from the indoor air. Suitable for residential and commercial applications, it makes the environment healthy and the air clean.

The recovery unit generates energy savings, thanks to the heat and humidity of the expelled air, which are recovered.

Recovery unit operation in winter-summer

The energy contained in the fresh air expelled from the rooms, which would otherwise be dispersed into the atmosphere, is recovered; this is used to pre-heat/pre-cool the air entering from outside.

FUNCTIONS AVAILABLE FROM THE CONTROL

Linkage control

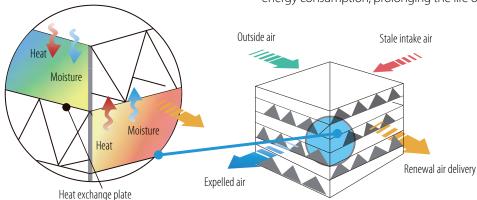
Automatic activation of the heat recovery unit via CAN-BUS communication if at least one indoor unit is active; shutdown if all indoor units are off.

Auto control

4 selectable air filtration level settings (excellent, good, moderate, sufficient).

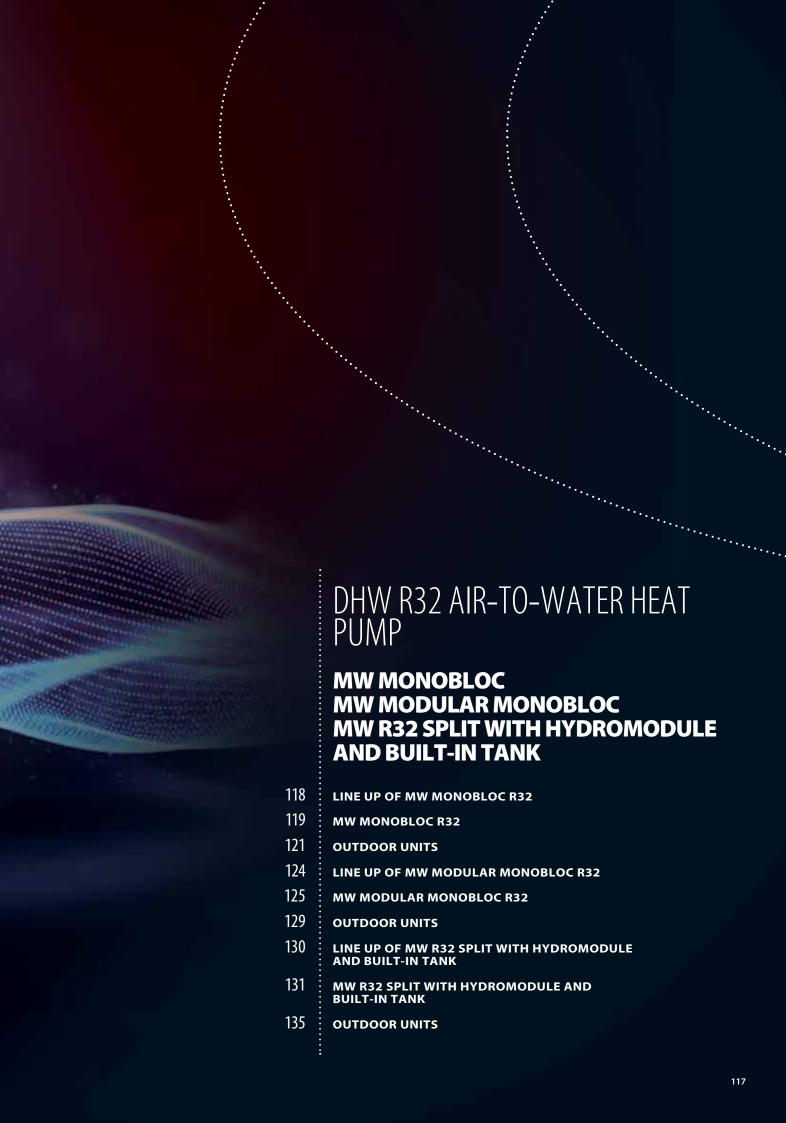
Free cooling with automatic bypass

Available when the outdoor temperature drops below the inside temperature (e.g. during night hours). This function reduces the fan's energy consumption, prolonging the life of the exchanger.











MW MONOBLOC R32

Air-to-water heat pump

OUTDOOR UNITS



5.00 kW	6.00 kW	8.00 kW
1-Phase	1-Phase	1-Phase
MCWNGS 402 Z	MCWNGS 602 Z	MCWNGS 802 Z



10.20 kW	12.00 kW	14.20 kW	15.70 kW
1-Phase	1-Phase	1-Phase	1-Phase
MCWNGS 1002 Z	MCWNGS 1202 Z	MCWNGS 1402 Z	MCWNGS 1602 Z

10.20 kW	12.00 kW	14.20 kW	15.70 kW
3-Phase	3-Phase	3-Phase	3-Phase
MCWSGS 1002 7	MCWSGS 1202 7	MCWSGS 1402 7	MCWSGS 1602 7

AIR-TO-WATER HEAT PUMP MW MONOBLOCCO R32

MW MONOBLOC by MULTIWARM is the reliable and advantageous solution for heating, cooling and producing DHW in micro-condominiums, single homes and apartments. The latest generation Full DC Inverter technology guarantees top-of-the-class performance and energy savings, with the added guarantee of the MULTIWARM brand.









SMART GRID Reading the trend of the electricity grid, energy savings guaranteed

Heating via radiant floors, fan coils, radiators

Thanks to MULTIWARM's MW MONOBLOC it is possible to heat all rooms, powering low-temperature hydronic terminals such as radiant floors, and medium-temperature ones, such as fan-coils and high-efficiency radiators.

Main operating modes

- > Cooling, heating, DHW production.
- Cooling + DHW production (with selectable priority).
- Heating + DHW production (with selectable priority).
- > DHW production.

Project climate zones for heating

Outside design temp.	Max delivery temp.	Climate zones
+10°C	65°C	
+5°C	62°C	WARMER
+2°C	60°C	
0°	59°C	
-5°C	56°C	AVERAGE
-10°C	<u>53°C</u>	
-23 C		

MW MONOBLOC is the R32 heat pump that operates in the following modes:

COOLING MODE	DHW PRODUCTION	HEATING MODE
from -15° C to 48° C from 5° C to 25° C (delivery temp.)	□ from -25° C to 45° C	from -25° C to 35° C from 20° C to 65° C (delivery temp.)
48	60	65
25	45 40	35 20
5 -15	-25	25



MW MONOBLOC R32

Product benefits



SILENT MODE

Silent mode operation reduces the noise of the heat pump compressor and fan.



CONNECTION WITH OTHER HEAT SOURCES

If the outdoor temperature is lower than the set-point, the external heat source will start operating.



CLIMATE CURVE

Automatically adjusts the water flow temperature and the room temperature based on the outdoor temperature.



EMERGENCY MODE

In the event of a heat pump malfunction, the auxiliary electrical resistors are activated.



ANTI-LEGIONELLA CYCLES

Increase the water temperature up to 70°C using the electric resistance in the DHW storage tank, thus eliminating legionella bacteria and sterilizing the water.

878 mm

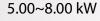


WEEKLY TIMER

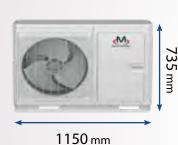
Possibility to set up to three daily operating programs (both in heating and cooling).

Gold

Compact dimensions



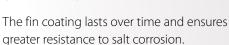
10.20~15.70 kW





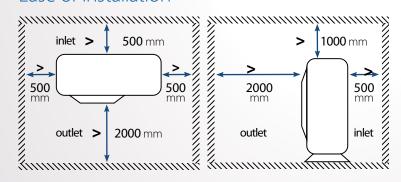
1206 mm

Aluminum fins with anti-corrosion coating (Gold Fin)





Ease of installation



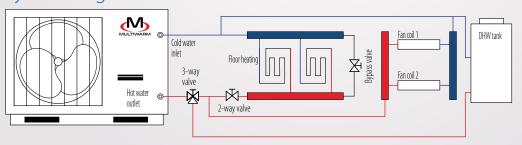
It is not necessary to make any connection to the refrigeration circuit, the hydraulic connections are sufficient.

DMC-HP-Z control

Group control, connect up to four R32 Monobloc or Split Series units, even combined together. Main functions:

- Silent mode;
- fast hot water;
- > Holiday mode;
- Climate;
- Child lock;
- anti-legionella programming via electrical resistance in the tank;
- Error reset;
- > Weekly timer.

System diagram





OUTDOOR UNITS



MCWNGS 402 - 602 - 802 Z 1-Phase

ENERGY CLASS

A+++
In heating mode with 35° Co

In heating mode with **35° C** delivery water temperature.

A++

In heating mode with **55° C** delivery water temperature.

Model				MCWNGS 402 Z	MCWNGS 602 Z	MCWNGS 802 Z			
	Rated power		LAM	5.00	6.00	8.00			
	Electrical absorption	A7//W35	kW	0.93	1.11	1.63			
	Performance coefficient		COP	5.40	5.40	4.90			
eating	Rated power		LAM	4.90	6.80	8.00			
	Electrical absorption	A7/W45	kW -	1.17	1.66	2.11			
	Performance coefficient		COP	4.20	4.10	3.80			
	Rated power		134/	5.00	6.50	8.00			
	Electrical absorption	A35//W18	kW	0.96	1.27	1.65			
a alia a	Energy efficiency		EER	5.20	5.10	4.85			
ooling	Rated power		134/	4.90	5.70	7.20			
	Electrical absorption	A35//W7	kW	1.40	1.75	2.25			
	Energy efficiency		EER	3.50	3.25	3.20			
	Theoretical load (Pdesignh) @ -10°C		kW	5/5	6/5	7/7			
easonal heating	Seasonal energy efficiency (ŋs)	35/55	%	192/137	199/137	184/145			
nta	Energy efficiency class	35/55	-	A+++/A++	A+++/A++	A+++/A++			
	Annual energy consumption		kWh/y	2306/2882	2386/2882	2979/3996			
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Heating	1 /		-25~35				
	Outdoor air temperature	Cooling	%	-1	5~48	10~48			
perating range		DHW			-25~45				
	0.1:	Heating	90	20~65					
	Delivery water temperature	Cooling		5~25					
	Refrigerant ¹ type (GWP)				R32 (675)				
Refrigerant circuit	Quantity (tons CO2) kg (t)			0.95	(0.641)	1.23 (0.830)			
	Control system			Electronic expansion valve					
	Compressor		type	Rotary - DC Inverter					
	Heat exchanger	Type		With brazed stainless steel plates					
	Heat exchanger	Flow rate	m³/h	0.7	1.1	1.4			
	Circulation number	Brand			Shinhoo				
	Circulation pump	Static pressure	2 kPa	84	76	60			
draulic data	Water connections	Type			Threaded				
	water connections	Dimension	Inch	1"F BSP					
	Operating pressure Min/Max		bar	0.5/2.5					
	[Volume	L	2					
	Expansion vessel	Pre-load	bar	<u> </u>					
	Power supply		Ph/V/Hz		1ph-230V-50Hz				
ectrical data	Maximum current	Heating		11.00	11.00	17.00			
ectiical adla	IVIAXIITIUITI CUTTETIL	Cooling	Α	8.00	8.00	10.60			
	Power cable (recommended)		type	3x2	.5 mm ²	3x4 mm²			
	Fan	Type	q.ty		DC Inverter x 1				
	Fan	Air flow	m³/h		3200				
	Sound power level		dB(A)		58	64			
oduct	·	Heating			53	56			
ecifications	Sound pressure level	Cooling	dB(A)	51	52	55			
	Dimensions	WxDxH	mm	-	1150x365x735				
					95				
	Weight	Net	kq	90 95 Wired remote control					

^{1.} Refrigerant leakage contributes to climate change. Refrigerants with a lower global warming potential (GWP) contribute less to global warming when released into the atmosphere than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. Therefore, 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. If necessary, always contact qualified personnel. 2. Values net of exchanger pressure drops.

GENERAL NOTE

The above data refers to the following standards: EN 14511:2018; EN 14825:2019; EN50564:2011; EN12102-1:2018; EN12102-2:2019; (EU)No:811:2013; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.



OUTDOOR UNITS





MCWNGS 1002 - 1202 - 1402 - 1602 Z 1-Phase

ENERGY CLASS

A+++

In heating mode with **35° C** delivery water temperature.

A+++

In heating mode with **55° C** delivery water temperature.

10.20 kW model

A++

In heating mode with **55° C** delivery water temperature.

12.00-15.70 kW models

Model				MCWNGS 1002 Z	MCWNGS 1202 Z	MCWNGS 1402 Z	MCWNGS 1602 Z			
	Rated power		kW	10.20	12.00	14.20	15.70			
	Electrical absorption	A7//W35	KVV	2.02	2.43	2.99	3.45			
la a si a a	Performance coefficient		COP	5.05	4.94	4.75	4.55			
leating	Rated power		kW	10.20	13.00	14.20	16.20			
	Electrical absorption	A7/W45	KVV	2.50	3.45	3.84	4.49			
	Performance coefficient		COP	4.08	3.77	3.70	3.61			
	Rated power		kW	10.20	12.00	13.70	15.50			
	Electrical absorption	A35//W18		2.00	2.45	3.00	3.60			
ooling	Energy efficiency		EER	5.10	4.90	4.57	4.31			
oomig	Rated power		kW -	9.00	11.10	13.30	13.80			
	Electrical absorption	A35//W7		2.65	3.58	4.75	5.09			
	Energy efficiency		EER	3.40	3.10	2.80	2.71			
	Theoretical load (Pdesignh) @ -10°C		kW	9/10	12/12	13/13	14/14			
	Seasonal energy efficiency (ηs)	35/55	%	176/152	188/149	185/147	184/146			
ata	Energy efficiency class	ננוננ	-	A+++/A+++	A+++/A++	A+++/A++	A+++/A++			
	Annual energy consumption		kWh/y	4163/5486	5194/6388	5682/7352	6072/7675			
		Heating		-25~35 -15~48						
	Outdoor air temperature	Cooling	°C							
perating range		DHW		-25~45						
	Delivery water temperature	Heating	% -	20~65						
	, ,	Cooling	_	5~25						
Refrigerant circuit Q	Refrigerant ¹ type (GWP)				R32 (675)					
				1.6 (1.080) 2.2 (1.485)						
ata	Control system			Electronic expansion valve						
	Compressor		type	Rotary – DC Inverter						
	Heat exchanger	Туре		With brazed stainless steel plates						
	ricut exchanger	Flow rate	m³/h	1.7	2.1	2.4	2.8			
	Circulation pump	Brand			Shir		T			
	enculation pump	Static pressure ²	kPa	57	50	36	20			
ydraulic data	Water connections	Туре				aded				
		Dimension	Inch			BSP				
	Operating pressure Min/Max		bar		0.5/2.5					
	Expansion vessel	Volume	L	2		3				
	'	Pre-load	bar							
	Power supply	10 0	Ph/V/Hz	25.00		OV-50Hz	20.00			
oad	Maximum current	Heating	Α –	25.00	29.00	30.00	30.00			
		Cooling		17.50	17.00	21.00	23.00			
	Power cable (recommended)	т	tipo		3x6					
	Fan	Type	q.ty	F000	DC Inve					
	Caused manual laurel	Air flow	m³/h	5800		5015				
	Sound power level	Heating	dB(A)	г		8	Γ0.			
roduct	Sound pressure level	Heating	dB(A)		6	58	59			
pecifications	'	Cooling	- ' / -	5	1200.4	55 45:-070	56			
	Dimensions	WxDxH	mm	11.4	1206x4	45x878				
	Weight	Net	kg	114	140-1	132				
	Control (supplied)				Wired rem	ote control				

^{1.} Refrigerant leakage contributes to climate change. Refrigerants with a lower global warming potential (GWP) contribute less to global warming when released into the atmosphere than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. Therefore, 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. If necessary, always contact qualified personnel. 2. Values net of exchanger pressure drops.

GENERAL NOTE

The above data refers to the following standards: EN 14511:2018; EN 14825:2019; EN50564:2011; EN12102-1:2018; EN12102-2:2019; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.





OUTDOOR UNITS





MCWSGS 1002 - 1202 - 1402 - 1602 Z 3-Phase

ENERGY CLASS

A+++

In heating mode with **35° C** delivery water temperature.



In heating mode with **55° C** delivery water temperature.

12.00-15.70 kW models



In heating mode with **55° C** delivery water temperature.

10.20 kW model

Model				MCWSGS 1002 Z	MCWSGS 1202 Z	MCWSGS 1402 Z	MCWSGS 1602 Z			
	Rated power		1111	10,20	12.00	14.20	15.70			
	Electrical absorption	A7//W35	kW –	2.06	2.49	3.09	3.57			
	Performance coefficient		COP	4.95	4.82	4.60	4.40			
eating	Rated power	A7/W45	1111	10.20	13.00	14.20	16.20			
	Electrical absorption		kW –	2.60	3.45	3.84	4.49			
	Performance coefficient	,	COP	3.92	3.77	3.70	3.61			
	Rated power		LW	10.20	12.00	13.90	15.40			
	Electrical absorption	A35//W18	kW -	2.13	2.61	3.32	4.05			
I.	Energy efficiency		EER	4.79	4.60	4.19	3.80			
ooling	Rated power		111/	9.10	11.10	13.30	13.80			
	Electrical absorption	A35//W7	kW -	2.80	3.58	4.75	5.09			
	Energy efficiency		EER	3.25	3.10	2.80	2.71			
	Theoretical load (Pdesignh) @ -10°C		kW	9/10	12/12	13/13	13/14			
Seasonal heating	Seasonal energy efficiency (ns)		%	189/140	180/150	179/150	179/150			
ata	Energy efficiency class	35/55	-	A+++/A++	A+++/A+++	A+++/A+++	A+++/A+++			
	Annual energy consumption		kWh/y	4069/5907	5517/6391	5927/7176	5927/7404			
	7 milder energy consumption	Heating	,	1003/3307		i~35	372777 101			
	Outdoor air temperature Coolin DHW		°(-15~48					
perating range			1 6	-15~46 -25~45						
peruting runge		Heating		20~65 5~25						
	Delivery water temperature	Cooling	- ℃ -							
Refrigerant circuit Q	Refrigerant ¹	Cooling	type (GWP)	R32 (675)						
		kg (t)		1.6 (1.080)						
ata	Control system				Electronic expansion valve					
atu	Compressor type			Rotary - DC Inverter						
	'	Type	турс	With brazed stainless steel plates						
	Heat exchanger	Flow rate	m³/h	1.7	2.1	2.4	2.8			
		Brand	111711	1./		nhoo	2.0			
	Circulation pump	Static pressure	2 kPa	57 50		36	20			
lydraulic data		Type	- KI U	JI		eaded	20			
yuraunc data	Water connections	Dimension	Inch		1"FBSP					
	Operating pressure Min/Max	DITTICTISION	bar			5/2.5				
	Operating pressure willi/wax	Volume	L			3				
	Expansion vessel	Pre-load	bar			1				
	Power supply	rie-lodu	Ph/V/Hz		2nh 40	0V-50Hz				
	11.7	Heating	PII/V/ПZ	9.00	11.50	12.00	12.50			
lectrical data	Maximum current	Cooling	A	6.00	5.00	8.00	8.50			
	Power cable (recommended)	Cooling	type	0.00		5 mm ²	00			
	rower cable (recommended)	Tuno	type			erter x 1				
	Fan	Type Air flow	q.ty	5800	DC INV					
	Cound nowar laval	WOII 11A	m³/h	UUBC		5015				
	Sound power level	11	dB(A)	-		58	FO			
roduct	Sound pressure level	Heating	dB(A)		6	58	59			
pecifications	'	Cooling		5	4	55	56			
	Dimensions	WxDxH	mm	424	1206x-	445x878				
	Weight	Net	kg	124		138				
	Control (supplied)				Wired ren	note control				

1. Refrigerant leakage contributes to climate change. Refrigerants with a lower global warming potential (GWP) contribute less to global warming when released into the atmosphere than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. Therefore, 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. If necessary, always contact qualified personnel. 2. Values net of exchanger pressure drops.

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MW MODULAR MONOBLOC R32

Air-to-water heat pump

OUTDOOR UNITS





36.02 kW 62.60 kW
3-Phase 3-Phase
MCWSGS 3501 Z MCWSGS 6001 Z

MW MONOBLOC MODULAR AIR-TO-WATER HEAT PUMP R32

The new range of modular Full DC Inverter heat pumps is ideal for cooling and heating residential and commercial buildings. Available in two sizes, 35 and 60 kW of cooling capacity, modularity is one of its most important advantages; in fact, it is possible to combine the two models up to 16 units, for a maximum of 960 kW of capacity.

High power in combination

35 & 60 kW

Outdoor units' capacities

960 kW

Maximum capacity combining 16 units of 60 kW



Energy efficiency

A++

In heating mode with **35° C** delivery water temperature.

R32

30% less charge than R410A gas.

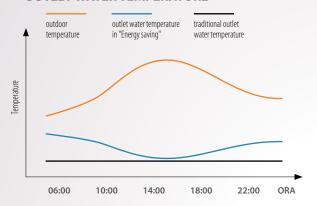
Modbus

The system is equipped with Modbus protocol as standard.

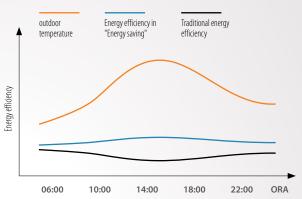
Control consumption with the "Energy saving" mode

The unit is able to estimate the thermal load of the building based on the outside air temperature, consequently modifying the flow water temperature set in order to reduce energy consumption.

OUTLET WATER TEMPERATURE



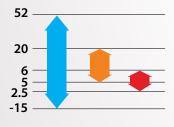
ENERGY EFFICIENCY TREND



Wide operating range

COOLING MODE

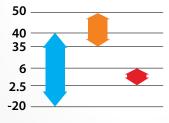
- from -15° C to 52° C
- from 5° C to 20° C (delivery temp.)
- In from 2.5° C to 6° C



- Outdoor air temperature
- Delivery water temperature

HEATING MODE

- from -20° C to 40° C
- from 35° C to 50° C (delivery temp.)
- △ from 2.5° C to 6° C



Water delivery temperature difference

-15°C
Minimum outside temperature in cooling mode

-20°C

Minimum outside temperature in heating mode

52°C

Maximum outside temperature in cooling mode

Maximum outside temperature in heating mode



Very quiet operation

- > Wide plastic fan blades
- »Quiet mode» function
- Compressor sound insulation
- > Special design of the fan area

52dB(A)

sound level at partial loads

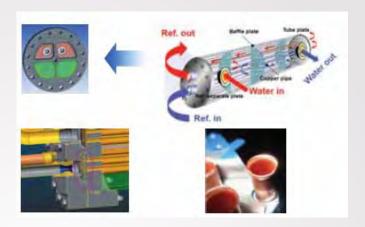


High efficiency with shell and tube heat exchanger

Heat .exchanger with "Dual flow" design, to increase the efficiency and capacity of the unit.

The special design of the plate and the related constriction at the exchanger inlet maintain a regular and uniform flow of refrigerant in order to improve exchange efficiency.

The U-thread inside the copper pipes improves the laminar flow of the fluid and facilitates heat exchange.



Longer service life with balanced work function

Thanks to smart control it is possible to balance the working time of the compressors in order to avoid excess work for only some, this improves the reliability of the system and its service life.

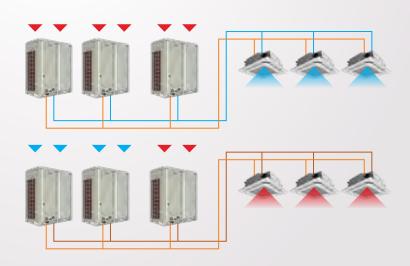


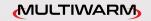
Greater reliability with the rotation function of the hydronic pumps

The units do not have hydronic pumps, which must therefore be provided externally, even in pairs. The pump rotation function can be activated automatically in order to increase their service life.

Winter comfort with selective machine defrosting

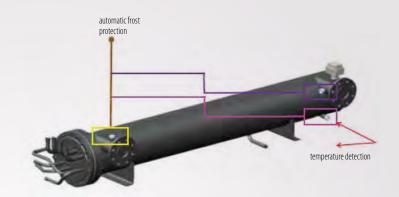
Only a third of the outdoor units are allowed to defrost simultaneously, thus reducing fluctuations in the outlet water temperature and, consequently, improving room comfort.





Frost protection for temperatures below 5°C

Anti-freeze protection is automatically activated by the unit when the outside temperature drops below 5°C, both in cooling and heating.



Operational continuity with free master unit

Each unit can be a master. In the event of a malfunction of a master unit, communication between the units of the same system is timely. A possible problem on one unit does not affect the normal functioning of the others, ensuring operational continuity.



Centralized control up to 16 units

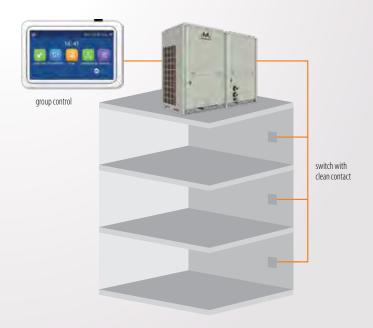
The wired remote control allows you to control up to 16 units.

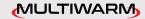
- > It is equipped with a 4.3-inch backlit LCD touch screen display.
- Allows the display of parameters and operating status in real time.
- > It features anti-corrosion structure.
- Touch screen, allows easy and quick operations.
- It can show up to 10 error codes on the same page.



Remote on/off thanks to the clean contact

The unit (or group of units) can be put into standby/ON by means of a clean external contact.











MCWSGS 3501 Z



MCWSGS 6001 Z

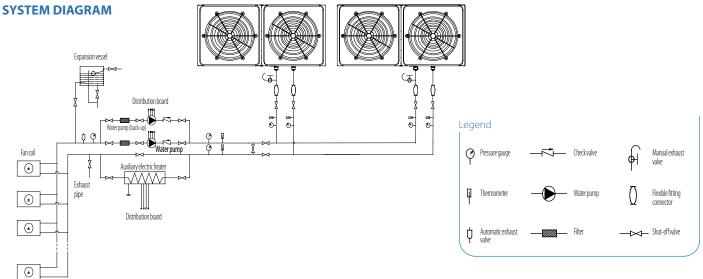
ENERGY CLASS

A++

In heating mode with **35° C** delivery water temperature.

Model				MCWSGS 3501 Z	MCWSGS 6001 Z				
	Rated power		1111	36.02	62.60				
	Electrical absorption	A7//W35	kW	8.81	15.08				
	Performance coefficient	7,, 11.55	COP	4.09	4.15				
Heating	Rated power			35.00	65.00				
	Electrical absorption	A7/W45	kW -	10.60	19.90				
	Performance coefficient	707113	COP	3.30	3.27				
	Rated power			32.00	60.00				
	Electrical absorption	A35//W7	kW -	11.70	20.80				
c 1	Energy efficiency		EER	2.74	2.88				
Cooling	Potenza massima			41.38	72.18				
	Electrical absorption	A35//W18	kW -	11.18	18.60				
	Energy effciency		EER	3.70	3.88				
	Theoretical load (Pdesignh) @ -10°C		kW	24.00	51.00				
Seasonal heating	Seasonal energy efficiency (ηs)	11/25	%	153.0	153.0				
data	Energy efficiency class	W35	-	A++	A++				
	Annual energy consumption		kWh/y	12504	25964				
	· · · · · · · · · · · · · · · · · · ·	Heating			~40				
Operating range	Outdoor air temperature	Cooling	-	-15	-15~52				
		Heating	°C		~50				
	Delivery water temperature Cooling		- °C	5~20					
Refrigerant circuit Q	Refrigerant type (GWP)				(675)				
			kg (t)	5.5 (3.713)	5.5 x 2 (7.425)				
data	Control system		307	Electronic expansion valve					
	Compressor		type	Twin Rotary DC Inverter x 1	Twin Rotary DC Inverter x 2				
	'	Type		Shell and tube					
	Heat exchanger	Flow rate	m³/h	5.5	10.3				
	,	Load loss	kPa	80	55				
Hadaaalta daka	Circulation pump			Not included					
Hydraulic data	\A/	Type		Threaded	Threaded				
	Water connections	Dimension	Inch	G1" 1/4 M (DN32)	G2" M (DN50)				
	Operating pressure Min/Max		bar	0.6/16					
	Expansion vessel			Not in	cluded				
	Power supply		Ph-V-Hz	3-380~4	15V-50Hz				
Electrical data	Maximum current		A	22.00	52.00				
	Power cable (recommended)		type	5x6 mm²	5x16 mm ²				
	Fan	Type	q.ty	DC Inverter x 2	DC Inverter x 2				
	Fan	Air flow	m³/h	12600	24000				
	Sound pressure level		dB(A)	62	68				
Product	Sound power level		dB(A)	78	86				
product specifications	Dimensions	WxDxH	mm	1340x845x1605	2200x965x1675				
specifications	Weight	Net	kg	405	686				
		Wired control (N	OT included)	DMWZ-	CWG-BIG				
	Controls	Climate curve		NOT a	vailable				
		Modbus		Intec	rated				

GENERAL NOTE: The above data refers to the following standards: EN 14511:2018; EN 14825:2019; EN50564:2011; EN12102-1:2018; EN12102-2:2019; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014



MULTIWARM



MW R32 SPLIT WITH HYDROMODULE AND BUILT-IN TANK

Air-to-water heat pump

OUTDOOR UNITS

HYDROMODULE TYPE INDOOR UNIT

INDOOR UNIT
WITH BUILT-IN TANK



MCENGS 600 Z



MCENGS 800~1200 Z MCESGS 1400~1600 Z



MHNGS 400~1600 Z MHSGS 1200~1600 Z



MHANGS 401~1601 Z MHASGS 1201~1601 Z

MW R32 SPLIT AIR-TO-WATER HEAT PUMP WITH HYDROMODULE AND BUILT-IN TANK

The new range of MW R32 Split air-to-water heat pumps with hydromodule and integrated tank with latest-generation DC Inverter technology is ideal for cooling, heating and DHW production. It is available in a single-phase version from 6 to 12 kW and in a three-phase version from 14 to 15.5 kW of thermal power. It achieves very high levels of efficiency in heating, up to 5 of COP.

Energy efficiency

A+++

In heating mode with **35° C** delivery water temperature.

A++

In heating mode with **55° C** delivery water temperature.

R32

30% less charge than R410A gas.

Design flexibility

6~15.5 kW

Capacities

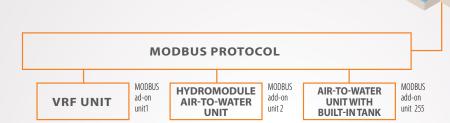
Features of the MW R32 Split heat pump with hydromodule and built-in tank

- DC Brushless Axial fans are designed for aerodynamic optimization, guaranteeing low noise levels, but high efficiency and large air flow.
- It is equipped with an electric resistance on the base, to prevent ice formation during winter operation.
- > The outdoor unit is equipped with an electronic expansion valve.
- The system is equipped with Modbus protocol as standard: control via WiFi is possible.

Connectivity and remote control

The unit allows connection to a BMS supervision system using the Modbus protocol as standard.

By installing the MULTIWARM Ewpe Smart APP application on your smartphone, you will be able to remotely control the most significant parameters of the heat pump via integrated WiFi.





Dual stage compressor with vapor injection

Under low outside temperature conditions, the dual-stage compressor with vapor injection reduces heat capacity losses and has higher energy efficiency than the conventional compressor.

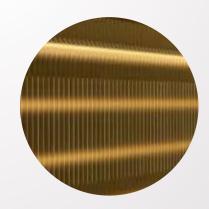
Under the same conditions, high compressor discharge temperatures and other problems can be completely avoided and the compressor reliability is significantly higher.

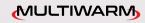
Double-stage compression, double-stage lamination and steam injection increase the outlet water temperature and improve control accuracy.

Golden fin anti-corrosion protective treatment

The heat exchanger coils are subjected to a special protective anti-corrosion treatment "Golden Fin". The heat exchanger fins, made of aluminum-manganese, are coated with a special layer of epoxy resin, which gives them the typical golden color, and with an additional hydrophilic layer.

This special treatment is able to protect the exchanger from rust and corrosion in areas with air with a high salt concentration, typical of marine areas.



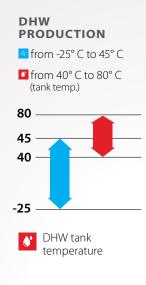


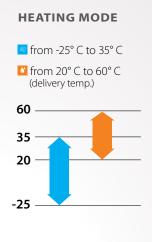
Wide operating range

COOLING MODE

The outlet water temperature range is from 20°C to 60°C: this allows use with radiant floors, hydronic terminals and medium temperature radiators.

from 10° C to 48° C from 7° C to 25° C (delivery temp.) 48 25 Outdoor air temperature Delivery water temperature





48°C

Maximum outside temperature in cooling mode





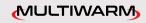
Touch screen control panel

The control panel, supplied as standard and integrated into the indoor unit, allows you to:

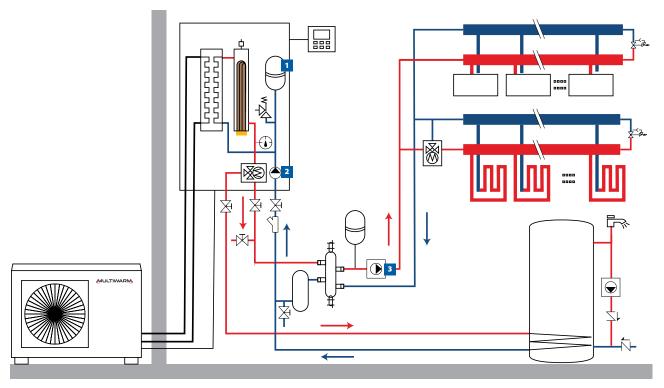
- define the operating mode of the heat pump and its priorities (heating, cooling, production of domestic hot water);
- > set all the main operating parameters (set point, hysteresis, etc.);
- activate external or internal systems for integration or replacement of the heating and domestic hot water production unit;
- manage the unit commissioning activity;
- view the status of the operating parameters of the main components of the heat pump;
- manage the unit remotely by connecting to a Modbus network or via the Wi-Fi integrated into the control panel.

Specific auxiliary functions are also available in the control panel, including:

- automatic management of the fluid delivery temperature based on the external temperature (climate curve);
- weekly and time-band operation programming;
- activation of silent operation;
- emergency management in case of unit malfunction;
- programmable activation of the anti-legionella cycle via electric resistance in the tank;
- > automatic activation of frost protection.



SPLIT MODEL WITH HYDROMODULE - SYSTEM DIAGRAM



NOTE: 1. Expansion vessel referred to the system circuit. Check that what is included in the unit is sufficient for the purpose. 2. Primary circulator on the system side. 3. Secondary circulator on the system side.



DMC-HP-Z control

Group control, connect up to four R32 Monobloc or Split Series units, even combined together. Main functions:

- > Silent mode;
- > fast hot water;
- > Holiday mode;
- > Climate;
- > Child lock;
- anti-legionella programming via electrical resistance in the tank;
- > Error reset;
- > Weekly timer.

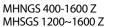




SPLIT MODEL WITH HYDROMODULE









In heating mode with 35° C delivery water temperature.



In heating mode with **55° C** delivery water temperature.







MCENGS 800~1200 Z

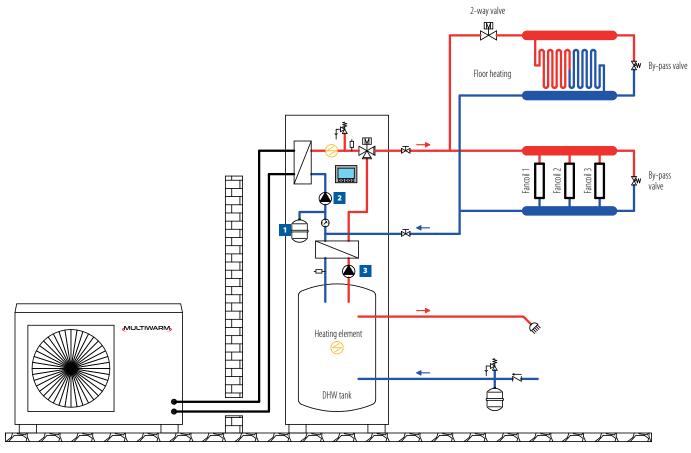


Outdoor unit mo	del			MCENGS 600 Z	MCENGS 800 Z	MCENGS 1000 Z	MCENGS 1200 Z	MCESGS 1400 Z	MCESGS 1600 Z		
	Rated power		1147	6.00	8.00	10.00	12.00	14.00	15.50		
	Electrical absorption	A7//W35	kW	1.20	1.61	2.10	2.40	2.98	3.44		
	Performance coefficient	,,	COP	5.00	4.97	4.76	5.00	4.70	4.51		
Riscaldamento	Rated power			5.80	8.00	9.85	12.40	14.44	16.13		
	Electrical absorption	A7/W45	kW	1.52	2.07	2.69	3.29	3.63	4.16		
		A//W43	COD								
Cooling Rat Elev Ene Elev Elev The Seasonal heating data Sea	Performance coefficient		COP	3.82	3.86	3.66	3.77	3.98	3.88		
	Rated power		kW	5.80	7.70	9.35	11.00	12.60	13.00		
	Electrical absorption	A35//W18		1.13	1.72	2.36	2.50	3.41	3.6		
Cooling	Energy efficiency		EER	5.15	4.48	3.96	4.40	3.70	3.61		
Cooling	Rated power		LAM	4.00	7.15	7.60	10.59	11.24	11.52		
	Electrical absorption	A35//W7	kW	1.16	2.49	2.77	3.79	4.13	4.38		
	Energy efficiency		EER	3.45	2.87	2.74	2.79		2.63		
	Theoretical load (Pdesignh) @ -10°C		kW	6/5	7/7	9/8	11/11	3,70 11,24 4,13 2,72 1 12/13 26 175/131 3++ A+++/A++ 385 5552/7958 1.84(5.88(5/8") 6.35(1/4") / 15 15 15 0	13/13		
Cassanal baseina	Seasonal energy efficiency (ns)	-	%	178.7/127.4	181/129	181/127	182/126		175/131		
		35/55									
data	Energy efficiency class		-	A+++/A++	A+++/A++	A+++/A++	A+++/A++		A+++/A++		
	Annual energy consumption		kWh/y	2729/3169	3149/4371	4038/5091	4967/6985	5552/7958	6027/7958		
		Heating				-25	~35				
Operating range	Outdoor air temperature	Cooling	%			10·	~48				
. , ,	·	DHW				-25	~45				
	Refrigerant type (GWP)					R32					
	Q.ty of pre-charge (tons CO2)		kg (t)	1.1 (0.743)	1.84 (1.242)		1.242)	1 9/1 /	1 2/12)		
				6.35(1/4") /							
	Piping diameter Liquid/Gas		mm (inch)				6.35(1/4") / 15.88(5/8")				
Refrigerant circuit	Max splitting length		m	20	15	15	15		15		
data	Max height diffrence O.U-I.U. / I.UO.		m	15	15	15	15		15		
data	Splitting length without additional cha	arge	m	10	15	15	15		15		
	Additional charge		g/m	16	0	0	0	0	0		
	Refrigerant control system			Electronic expansion valve							
	Compressor		type	Rotary - DC Inverter							
	Power supply				1nh_23	80V-50Hz	re inverter	3nh_//0	0V-50Hz		
	т ожет заррту	Heating	Ph-V-Hz	10.00	13.50	15.00	17.80	8.00	8.50		
Electrical data	Maximum current		- A								
	0 11 / 1 1)	Cooling		11.00	20.00	22.00	25.60	11.50	11.50		
	Power cable (recommended)	1 _	type	3x2.5			mm ² 5x2.5 mm ²				
	Fan	Туре	q.ty	DC In			verter		verter		
	1 011	Air flow	m3/h	3200	3300	3300	5015	5015	5015		
Product	Sound power level		dB(A)	62	67	68	68	68	68		
specifications	Sound pressure level		dB(A)	52	55	55	57	58	58		
	Dimensions	WxDxH	mm	975x396x702	982x427x787	982x427x787	940x460x820	940x460x820	940x460x820		
	Weight	Net	kg	55	82	82	104	110	110		
		INCL									
Indoor unit mode	1			MHNGS 400-600 Z			MHNGS 1200-1600 Z		200-1600 Z		
	Daliyany water temperature	Heating	- %	20~60	20	~60	20~60	20-	~60		
Operating range	Delivery water temperature	Cooling	- %	7~25	7-	~25	7~25	7~	-25		
, , ,	DHW temperature (tank)		7 -(40~80	40	~80	40~80	40-	~80		
	Water/freon heat exchanger	Туре		10 00			d plate				
	Circulation pump	Brand					nhoo				
	Circulation pump										
	Water connections	Туре		4//14.000	4/11		aded	4//	1000		
Hydraulic data		Dimension	Inch	1"M BSP		M BSP	1"M BSP		1 BSP		
	Operating pressure	Min/Max	bar	0.5/2.5		5/2.5	0.5/2.5		/2.5		
	Funancian usual	Volume	L	10		10	10	1	10		
	Expansion vessel	Pre-load	bar	1		1	1		1		
	Power supply		Ph-V-Hz		1nh-7	30V-50Hz		3nh-40	0V-50Hz		
	Electrical integration		kW	3.00		i.00	6.00		.00		
Electrical data	Electrical absorption	Max	kW	3.10		i.10	6.10				
	December (1997)	IVIdX							5.1		
	Power cable (recommended)		type	3x2.5 mm ²		mm ²	3x6 mm ²		mm ²		
	Sound power level		dB(A)	42		42	42		12		
	Sound pressure level		dB(A)	29		29	29		29		
Product	Dimensions	WxDxH	mm	460x318x860	460x3	318x860	460x318x860	460x3	18x860		
specifications	Weight	Net	kg	58		58	58		50		
	Control (supplied)	.100	, ng	50			achine control		, .		
	Integrated remote control						Modbus				
	i intentaten terriote (ONITO)					VVITI IV	NUUUHS				

GENERAL NOTE: The above data refers to the following standards: EN 14511:2018; EN 14825:2019; EN50564:2011; EN12102-1:2018; EN12102-2:2019; (EU)No:811:2013; (EU)No:813:2013; 0J 2014/C 207/02:2014.



SPLIT MODEL WITH BUILT-IN TANK - SYSTEM DIAGRAM



NOTE: 1. Expansion vessel referred to the system circuit. Check that what is included in the unit is sufficient for the purpose. 2. System side circulator. 3. Sanitary water side circulator.



DMC-HP-Z control

Group control, connect up to four R32 Monobloc or Split Series units, even combined together. Main functions:

- > Silent mode;
- > fast hot water;
- > Holiday mode;
- > Climate;
- > Child lock;
- anti-legionella programming via electrical resistance in the tank;
- > Error reset;
- > Weekly timer.





< SPLIT I

SPLIT MODEL WITH BUILT-IN TANK





MCENGS 600 Z



MCENGS 800~1200 Z MCESGS 1400~1600 Z





MHANGS 401-1601 Z MHASGS 1201-1601 Z

ENERGY CLASS



In heating mode with **35°C** delivery water temperature.



In heating mode with **55°C** delivery water temperature.

Outdoor unit mo	del			MCENGS 600 Z	MCENGS 800 Z	MCENGS 1000 Z	MCENGS 1200 Z	MCESGS 1400 Z	MCESGS 1600 Z			
	Rated power		kW	6.00	8.00	10.00	12.00	14.00	15.50			
	Electrical absorption	A7//W35	KVV	1.20	1.61	2.10	2.40	2.98	3.44			
	Performance coefficient		COP	5.00	4.97	4.76	5.00	4.70	4.51			
Heating	Rated power			5.80	8.00	9.85	12.40	14.44	16.13			
	Electrical absorption	A7/W45	kW	1.52	2.07	2.69	3.29	3.63	4.16			
	Performance coefficient	/// W+5	COP	3.82	3.86	3.66	3.77	3.98	3.88			
	Rated power			5.80	7.70	9.35	11.00	12.60	13.00			
		A 2 F / / / / / 1 O	kW				2.50		3.60			
Carlton	Electrical absorption	A35//W18		1.13	1.72	2.36		3.41				
Cooling	Energy efficiency		EER	5.13	4.48	3.96	4.40	3.70	3.61			
5	Rated power	l	kW	4.00	7.15	7.60	10.59	11.24	11.52			
	Electrical absorption	A35//W7		1.16	2.49	2.77	3.79	4.13	4.38			
	Energy efficiency		EER	3.45	2.87	2.74	2.79	2.72	2.63			
	Theoretical load (Pdesignh) @ -10°C		kW	6/5	7/7	9/8	11/11	12/13	13/13			
Seasonal heating	Seasonal energy efficiency (ηs)	25/55	%	182/128	181/129	181/127	182/126	175/132	175/132			
lata	Energy efficiency class	35/55	-	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++			
	Annual energy consumption	1	kWh/y	2685/3152	3149/4371	4038/5091	4967/6985	5552/7958	6027/7958			
	rumaar energy consumption	Heating	,	2003/3132	311371371		~35	3332(7730	002777330			
Operating range	Outdoor air temperature	Cooling	%				~48					
sperating range	Outdoor all terriperature	DHW	-				~45					
	D.C (CMD)	DHM										
	Refrigerant type (GWP)		1 63	11/07/2	104 (1212)		(675)	I	1 2 42)			
	Q.ty of pre-charge (tons CO2)		kg (t)	1.1 (0.743)	1.84 (1.242)		1.242)		1.242)			
	Piping diameter Liquid/Gas		mm (inch)	6.35(1/4")/		6.35(1/4") / 12.74(1/2")			15.88(5/8")			
Refrigerant circuit	Max splitting length		m	20	25	25	15	15	15			
	Max height diffrence O.U-I.U. / I.UO.	U.	m	15	15	15	15	15	15			
data	Splitting length without additional cha	arge	m	10	25	25	15	15	15			
	Additional charge			16	0	0	0	0	0			
	Refrigerant control system				Electronic expansion valve							
	Compressor type				Two-stage rotary- DC Inverter							
	Power supply	Ph-V-F			1nh 72	OV-50Hz	ily De Illverter	2nh 40	OV-50Hz			
	rowei suppiy	Heating	FII-V-IIZ	10.00	13.50	15.00	17.80	8.00	8.50			
Electrical data	Maximum current	Heating	A									
	2 11 (Cooling		11.00	20.00	22.00	25.60	11.50	11.50			
	Power cable (recommended)	-	type	3x2.5			mm2		mm2			
	Fan	Type	q.ty	DC Inv			verter		verter			
	Tull	Air flow	m3/h	3200	3300	3300	5015	5015	5015			
Product	Sound power level		dB(A)	62	67	68	68	68	68			
specifications	Sound pressure level		dB(A)	52	55	55	57	58	58			
	Dimensions	WxDxH	mm	975x396x702	982x427x787	982x427x787	940x460x820	940x460x820	940x460x820			
	Weight	Net	kg	55	82	82	104	110	110			
Indoor unit mode	-	Het	i iig	MHANGS 401-601 Z	-	801-1001 Z	MHANGS 1201-1601 Z		201-1601 Z			
illaoor ullit illoue	EI T											
_	Delivery water temperature	Heating	- ℃	20~60		~60	20~60		~60			
Operating range		Cooling	- °C	7~25		~25	7~25		-25			
	DHW temperature (tank)			40~80	40	~80	40~80	40	~80			
	DHW tank capacity		L	190	1	90	190	1	90			
	Water/freon heat exchanger	Type			Brazed plate							
	Circulation pump	Brand					nhoo					
		Type					aded					
Hydraulic data	Water connections	Dimension	Inch	1"M BSP	1"1.	M BSP	1"M BSP	1"1	BSP			
	Operating proceure	Min/Max	bar	0.5/2.5		5/2.5	0.5/2.5		/2.5			
	Operating pressure		Dai									
	Expansion vessel	Volume	-	10		10	10		0			
	'	Pre-load	bar	1		1	1		1			
	Power supply		Ph-V-Hz			0V-50Hz			0V-50Hz			
	Electrical integration	Heating	kW	3.00		.00	6.00		00			
Electrical data	Licentearintegration	Serbatoio ACS		3.00		.00	3.00	3.	00			
	Electrical absorption	Max	kW	3.175	6	.10	6.10	6	.1			
	Power cable (recommended)		type	3x4 mm ²		mm ²	3x6 mm ²		mm ²			
	Sound power level		dB(A)	47		47	47		17			
	Sound pressure level		dB(A)	29		29	29		9			
		MADALI		600x650x1800								
	Dimensions	WxDxH	mm			50x1800	600x650x1800		i0x1800			
	Maria								95			
Product specifications	Weight	Net	kg	195]	95	195		7)			
	Weight Control (supplied) Integrated remote control	Net	kg	195	1	On-board ma	achine control Modbus		7)			

GENERAL NOTE: The above data refers to the following standards: EN 14511:2018; EN 14825:2019; EN50564:2011; EN12102-1:2018; EN12102-2:2019; (EU)No:811:2013; (EU)No:811:2013; (EU)No:813:2013; (D) 2014/C 207/02:2014.







STANDARD INDIVIDUAL CONTROLS R32

INFRARED REMOTE CONTROL



Action Remote control included

MONOSPLIT/MULTISPLIT R32

FEATURES

- > Temperature setting & display.
- > Clock.
- > 7 fan speed levels.
- ON/OFF Timer.

- → Air distribution with automatic vertical and/or horizontal flaps' swinging.
- → Autorestart: restart after blackout with restoration of the previous state.



Airpro Plus Remote control included

MULTISPLIT R32

FUNCTIONS

- I-Feel: optimal control of the room temperature based on the temperature detected by the sensor built into the remote control.
- Sleep: automatic control of room temperature during night hours (3 functions).
- X-fan: allows you to dry the evaporator to avoid the formation of mold and bacteria (Airpro Plus).
- Turbo: rapid reaching of room temperature.
- Light: activation/deactivation of display brightness (Airpro Plus).
- Quiet: Silent mode
- Energy saving (Airpro Plus).
- > WiFi.
- Cold Plasma: ionizer.

MODES

- Heating.Cooling.
- > Dehumidification.
- Ventilation.
- Automatic.



Remote control included

MULTISPLIT **R32** 8-way compact cassette

LIGHT COMMERCIAL **R32** 8-way compact cassette (up to 3.50 kW) 8-way big cassette floor/ ceiling (up to 7.10 kW)

FEATURES

- > Clock.
- ON/OFF Timer.
- > 4 fan speed levels + Turbo function.
- Air distribution with automatic vertical and/ or horizontal flaps' swinging.

 Setting the room temperature and displaying the indoor and outdoor temperature.

FUNCTIONS

- > I-Feel.
- > Sleep.
- > Energy saving (cooling).
- > Absence (heating).
- > Key lock.
- > X-fan: only cooling and dehumidifying.
- Light: enables/disables display lighting.

MODES

- Heating.
- > Cooling.
- > Dehumidification.
- > Ventilation.
- Automatic.



STANDARD INDIVIDUAL ONTROLS R32

INFRARED REMOTE CONTROL



Remote control included

MULTISPLIT R32 1-way cassette



FEATURES

- > Temperature setting & display.
- Clock.
- ON/OFF Timer.
- > 4 fan speed levels: auto, low, medium
- > 6 fan speed levels with console remote control: auto, low, mediumlow, medium, medium-high or high.
- > Air distribution with automatic vertical flaps' swinging.
- > Autorestart: restart after blackout with restoration of the previous state.

FUNCTIONS

- > I-Feel: optimal control of the room temperature based on the temperature detected by the sensor built into the remote control.
- > Sleep: automatic control of room temperature during night hours.
- > X-fan: only in cooling and dehumidification.
- Turbo: the unit operates at very high speed to quickly reach the cooling or heating temperature.
- > Light: display brightness on/off.
- **>** Quiet: Silent mode.
- > Energy saving.
- Key lock.

MODES

- > Heating. > Cooling.
- > Dehumidification.
- > Ventilation.
- > Automatic.



Remote control included

LIGHT COMMERCIAL R32 8-way big cassette floor/ceiling (from 10 to 16 kW)

FEATURES

- > Temperature setting & display.
- > Clock.
- → ON/OFF Timer.
- > 4 fan speed levels: auto, low, medium or high.

MODES

- > Heating.
- Cooling.
- Dehumidification.
- > Ventilation.
- Automatic.

FUNCTIONS

- > Follow me: adjusts the room temperature according to that detected by the remote control to obtain maximum comfort.
- > Sleep: automatic control of room temperature during night hours.
- > Self Clean: allows the evaporator to dry to avoid the formation of mold and bacteria.
- > Turbo: the unit operates at very high speed to quickly reach the cooling or heating temperature.
- Led: brightness adjustment.
- > Breeze Away: in cooling, ventilation and dehumidification mode, it allows you to avoid a direct air flow.





STANDARD INDIVIDUAL ONTROLS R32

WIRED CONTROL



Wired control

STANDARD (included) for the models LIGHT COMMERCIAL R32 ducted (up to 7.10 kW)

FEATURES

- > Temperature setting & display.
- ON/OFF Timer.
- > 5 fan speed levels + auto.

FUNCTIONS

- > Sleep: automatic control of room temperature during night hours.
- Turbo: the unit operates at very high speed to quickly reach the cooling or heating temperature.
- > X-fan: after the unit has been turned off, it allows the evaporator to dry to prevent the formation of mold and bacteria.
- > Key lock.

MODES

- > Heating.
- > Dehumidification. > Automatic.

- > Cooling.
- > Ventilation.

WIRED CONTROL



DMW-W2-ZA Wired control

STANDARD (included) for the models LIGHT COMMERCIAL R32 ducted (from 10 to 16 kW)

FEATURES

- > LCD Display.
- > Error codes display.
- Room temperature display.
- > Weekly Timer.

FUNCTIONS

- > Follow me.
- Turbo: the unit operates at very high speed to quickly reach the cooling or heating temperature.
- Auto Restart.
- ON/OFF Timer.
- > Weekly Timer.

MODES

- > Heating.
- Dehumidification. > Automatic.
- Cooling.
- > Ventilation.



INDIVIDUAL ONITROIS R32

WIRED CONTROL WITH BUILT-IN WI-FI MODULE



DMW-ZA1-WiFi Wired control

Optional for the models LIGHT COMMERCIAL R32 8-way compact cassette

Up to 7.10 kW: 8-way big cassette floor/ceiling, ducted

CARATTERISTICHE

- > Impostazione e visualizzazione della temperatura.
- Timer ON/OFF.
- > 5 livelli di velocità del ventilatore + auto.

FUNCTIONS

- > Sleep: automatic control of room temperature during night hours.
- > Turbo: the unit operates at very high speed to quickly reach the cooling or heating temperature.
- > X-fan: after the unit has been turned off, it allows the evaporator to dry to prevent the formation of mold and bacteria.
- > Key lock.

MODES

- > Heating.
- Dehumidification. > Automatic.

- > Raffrescamento.
- Ventilation.

WIRED CONTROL WITH BUILT-IN WI-FI MODULE



DMW-ZAL-LCAC WiFi

Wired control

STANDARD (included) for the models MULTISPLIT R32 ducted

Optional for the models MULTISPLIT R32 8-way compact cassette 1-way cassette ceiling

FEATURES

- > Integrated ambient temperature sensor.
- > 6 levels of fan speed.
- > Error display.

- ON/OFF Timer.
- Memory: restart after blackout with restoration of previous state.

FUNCTIONS

- > Sleep: automatic control of room temperature during night hours.
- Turbo: the unit operates at very high speed to quickly reach the cooling or heating temperature.
- Ouiet: Silent mode.

- > X-fan: it allows the evaporator to dry to prevent the formation of mold and bacteria.
- > Absence (heating only): prevents the room temperature from falling below 8° C.
- Key lock.

MODES

- > Heating. Cooling.
- > Dehumidification.
- > Ventilation.
- > Automatic.



OPTIONAL CONTROLS R32

WIRED CONTROL



M-RF-CW2-L-G

Optional for the models MULTISPLIT R32 wall (Airpro Plus & Action) console 1-way cassette compact cassette ceiling

CARATTERISTICHE

- 4 livelli di velocità del ventilatore: auto, bassa, media o alta.
- Distribuzione dell'aria con oscillazione verticale e orizzontale automatica,
- > Visualizzazione errori.
- > Timer giornaliero, settimanale o bi-settimanale.
- Memory: restart after blackout with restoration of previous state.

FUNCTIONS

- > Sleep: automatic control of room temperature during night hours.
- Turbo: the unit operates at very high speed to quickly reach the cooling or heating temperature.
- > Quiet: Silent mode.

- > X-Fan: after the unit has been turned off, it allows the evaporator to dry to prevent the formation of mold and bacteria.
- > Absence (heating only): prevents the room temperature from falling below 8° C.
- > Key lock.

MODES

- > Heating.
- > Dehumidification.
- Cooling.
 Ventilation.
- Automatic.

WIRED CONTROL WITH BUILT-IN WIFI MODULE



DMW-WIFI-ZA Wired control

optional for the models LIGHT COMMERCIAL R32 ducted 10-16 kW floor/ceiling 10-16 kW big cassette 84x84 10-16 kW

FEATURES

- LCD Display.
- > Error codes display.
- Room temperature display.
- > Weekly Timer.

FUNCTIONS

- > Follow me.
- Turbo: the unit operates at very high speed to quickly reach the cooling or heating temperature.
- Auto Restart.
- → ON/OFF Timer.
- > Weekly Timer.

MODES

- > Heating.
- > Dehumidification. > Automatic.
- > Cooling.
- > Ventilation.



WI-FI CONTROLS FOR VRF SYSTEMS

WI-FI MODULE



M-V-WiFi-2-IDU



EWPE SMART



Available for Android and iOS smartphones and tablets

Some examples of screenshots from iOS devices

M-V-WiFi-2-IDU module for VRF systems

All the main air conditioning settings at your fingertips on your smartphone

MULTIWARM presents the new M-V-WiFi-2-IDU module which allows access to remote control of the air conditioner via an app downloadable on a smartphone.

The MULTIWARM Wi-Fi kit can connect up to 80 indoor units.

Thanks to the M-V-WiFi-2-IDU app, you can manage the main operating parameters from your home with a simple domestic Wi-Fi connection, or away from home, with a simple Internet connection. With EWPE SMART by MULTIWARM, you can turn the air conditioner on, off, adjust the room temperature and air flow, and operate in cooling or heating mode, with just a few "touches" on your mobile phone. An intelligent app that controls comfort and energy savings with a beneficial effect on your bill.



MAIN FUNCTIONS OF THE APP

- Access security with account protected by credentials (User ID and PWD).
- > Individual control of individual units.
- Turning on and off.
- > Selecting the operating mode.
- Adjusting the set temperature.
- > Fan speed.
- > Weekly timer.
- → Heating activation 8° C (function that prevents the room temperature from falling below 8° C).
- > Silent mode.



VRF STANDARD INDIVIDUAL

INFRARED REMOTE CONTROL



M-V-CI-NB1-G

Standard for the following units:

wall, 8-way compact cassette, 8-way cassette, console, floor/ ceiling

FEATURES

- > Clock.
- Timer.
- > 4 fan speed levels + Turbo function.
- Air distribution
- with vertical or horizontal flaps' swinging.
- > Setting the room temperature and displaying the indoor and outdoor temperature.

FUNCTIONS

- > I-Feel. → X-fan.
- > Sleep. > Light.
- > Energy saving (cooling).
- > Absence (heating).
- > Key lock.

MODES

- Heating.
- > Cooling.
- > Dehumidification.
- Ventilation.
- Automatic.

WIRED CONTROL



M-V-CW-SD1-G

Standard for the following units:

ducted:

low/high static pressure, 100% outdoor air ducted, enthalpy recovery unit, recovery unit with coil, recessed floor unit and EEV kit for AHU

Optional for other

Touch key panel. Monochrome LCD display with white backlighting, soft touch buttons. Modern design, square lines. Intuitive remote control for the user and versatile thanks to the different functions.

FEATURES

- Clock.
- 24 hour timer for on/off.
- > 6 fan speed levels + Turbo function.
- Air distribution with vertical or horizontal flaps' swinging
- .> Integrated ambient temperature sensor.
- View and set project parameters.
- > Receiving infrared signal from the remote control.

FUNZIONI

- > Sleep.
- Quiet.
- > Auto Quiet.
- > X-fan.
- **>** Light.
- **>** Defrost.
- > Save.
- > Absence (heating).
- > Key lock.
- Memory.
- Filter cleaning reminder.

MODES

- > Heating.
- Cooling.
- > Dehumidification.
- > Ventilation.
- Automatic.

UP TO 16 INDOOR UNITS CAN BE CONNECTED, WHICH WILL OPERATE WITH THE SAME SETTINGS

See details of functions and application types, page 148



VRF OPTIONAL INDIVIDUAL (ONTROLS

WIRED CONTROL FOR HOTEL



M-V-CW-HB2-G Optional for all types of indoor Simplified panel particularly suitable for hotel applications. Backlit monochrome LCD display, mechanical buttons. Modern design, square lines, with glossy glass effect front panel. Very simple and intuitive remote control for the user and with simplified functions. Possible connection with automatic access management systems.

FEATURES

- > 6 fan speed levels + Turbo function.
- > Air distribution with vertical flaps' swinging.
- > Setting and displaying the room temperature.
- > Receiving infrared signal from the remote control.

FUNCTIONS

- → Defrost.
- > Key lock.
- > Memory.

MODES

- Heating.
- Cooling.
- > Dehumidification.
- > Ventilation.
- > Automatic.

UP TO 16 INDOOR UNITS CAN BE CONNECTED, WHICH WILL OPERATE WITH THE SAME SETTINGS

SMART WIRED CONTROL



M-V-CW-TW1-G
Optional for all
types of indoor

Smart touch screen panel with high resolution LCD display. Elegant design, square lines. Very advanced remote control complete with various functions, each viewable on a single interactive screen and easy to manage.

FEATURES

- Clock.
- 3 types of Weekly Timer.
- > 6 fan speed levels + Turbo function.
- Air distribution with vertical or horizontal flaps' swinging.
- > Detection and display of ambient temperature.
- > Receiving infrared signal from the remote control.
- Various customizations possible such as light regulation and stand-by time.

FUNCTIONS

- > Sleep.
- Ouiet.
- > Auto Quiet.
- > X-fan.
- **>** Light.
- **Defrost.**
- > Save.
- > Absence (heating).
- > Key lock.
- Memory.
- > Filter cleaning reminder.

MODES

- > Heating.
- Cooling.
- > Dehumidification.
- > Ventilation.
- Automatic.

UP TO 16 INDOOR UNITS CAN BE CONNECTED, WHICH WILL OPERATE WITH THE SAME SETTINGS

See details of functions and application types, page 148



Application types for VRF wired controls

M-V-CW-SD1-G M-V-CW-HB2-G M-V-CW-TW1-G SINGLE CONTROL FOR THE MANAGEMENT OF A SINGLE INDOOR UNIT

Each indoor unit has its own independent control.

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TWO CONTROLS FOR MANAGING A SINGLE UNIT

An indoor unit can be controlled by two wired controllers placed in different locations (Master/Slave mode).

SINGLE CONTROL FOR MANAGING MULTIPLE INDOOR UNITS (GROUP CONTROL)

A single wired controller can control up to 16 indoor units simultaneously.

TWO CONTROLS FOR MANAGING DIFFERENT INDOOR UNITS

The indoor units (maximum 16) can be managed by two wired controllers simultaneously.

Appendix

DETAIL OF CONTROL FUNCTIONS

- > Absence (heating only): prevents the room temperature from falling below 8° C.
- **Defrost**: defrost function.
- Energy saving/Save: energy saving.
- > I Feel: adjusts the room temperature according to that detected by the remote control to obtain maximum comfort.
- > **Light**: brightness adjustment.
- **Memory**: in the event of a blackout, when the power is restored, it automatically restarts with the previous settings.
- Quiet/Auto Quiet: Silent mode.
- > **Rapid**: when the unit is turned on, in direct expansion cooling or heating mode, it allows the set temperature to be reached quickly, improving indoor comfort.
- > **Sleep**: night operation.
- > **Turbo**: the unit operates at very high speed to quickly reach the cooling or heating temperature.
- > X-Fan: allows the evaporator to dry to avoid the formation of mold and bacteria.



VRF OPTIONAL CENTRLALIZED CONTROLS



Simplified centralized panel with 4.3" LCD touch screen display. Modern and elegant design. Small footprint: recessed wall installation with a protrusion of only 11 mm.

You can manage up to 32 groups of indoor units (32 indoor units in total) distributed across up to 16 systems*. Possibility to: assign names to indoor units, select icons and create custom settings (background, backlight).

M-V-CC-T32-G

FEATURES

- > View and set project parameters.
- Fault recording and access management.

FUNCTIONS

- Single unit control: temperature setting, timer, fan speed, air distribution control with vertical or horizontal flaps' swinging and advanced functions (sleep, quiet, auto quiet, auxiliary heating, save, rapid, absence in heating).
- Group management.
- Centralized control of all indoor units.

MODES

- Heating.
- Hydronic heating.
- > 3D heating.
- Ambient heating.
- Cooling.
- > Dehumidification.
- > Ventilation.
- > Automatic.



M-V-CC-T255-G

Centralized Touch Screen Panel. High resolution 1280x800 7" touch screen LCD display. Modern and elegant design. User-friendly operation. Small footprint: recessed wall installation with a protrusion of only 11 mm.

You can manage up to 255 groups of indoor units (255 indoor units in total) distributed across up to 16 systems*. Possibility to: assign names to indoor units, select icons and create custom settings (background, backlight).

FEATURES

- > View and set project parameters.
- > Fault recording and access management.
- Programming (setting different programs).
- Maintain settings in the event of a blackout.

FUNCTIONS

- Single unit control: temperature setting, timer, fan speed, air distribution control with vertical or horizontal flaps' swinging and advanced functions (sleep, quiet, auto quiet, auxiliary heating, save, rapid, absence in heating).
- > Group management.
- > Centralized control of all indoor units.

MODES

- Heating.
- > Hydronic heating.
- > 3D heating.
- Ambient heating.
- > Cooling.
- > Dehumidification.
- > Ventilation.
- Automatic.



^{*} When the centralized controls are connected to multiple outdoor units in combination, insert the 120Ω electrical resistance and use a twisted and shielded cable.

RF OPTIONAL CONTROLS

WEB-BASED MONITORING SOFTWARE



M-V-SOFT-Mon

Optional for all types of indoor units

(requires Gateway M-V-Gateway-Mon)



M-V-Gateway-Mon TCP/IP Network Gateway

Remote control of on, off, temperature setting, operating mode and other parameters of any type of indoor unit or group of indoor units.

- > Real-time monitoring of system status and output of data for any errors and malfunctions.
- > Programming of units according to user needs and the intended use of the building.
- > Visualized graphical representation of the system structure and control modes of individual devices and/or groups of the entire project.
- Consumption accounting.

GATEWAY FOR BACNET/IP AND MODBUS RTU/TCP MAX 255 I.U.



Optional for all types of indoor

(max. 16 systems or 255 indoor units)

- M-V-Gateway-LAN/Bacnet > Network gateway that supports connection to a building management system (BMS).
 - > This network gateway features BACnet and Modbus communication protocols.
 - > The high-efficiency, large-data communication system can monitor unit operation in real time and control up to 255 indoor units simultaneously.

MINI GATEWAY FOR MODBUS RTU



M-V-Gateway-Modbus

Optional for all types of indoor

(max. 16 systems or 128 indoor units)

- > The mini Modbus network gateway enables connection to a building management system (BMS).
- > Remote control for single unit or groups of units for switching on, off, setting temperature, operating mode, fan speed, control lock with individual remote controls and real-time monitoring of operating parameters and error codes of the units.



OTHER VRF OPTIONAL CONTROLS

GATEWAY FOR CONNECTING LIGHT COMMERCIAL UNITS TO THE CENTRALIZED CONTROL

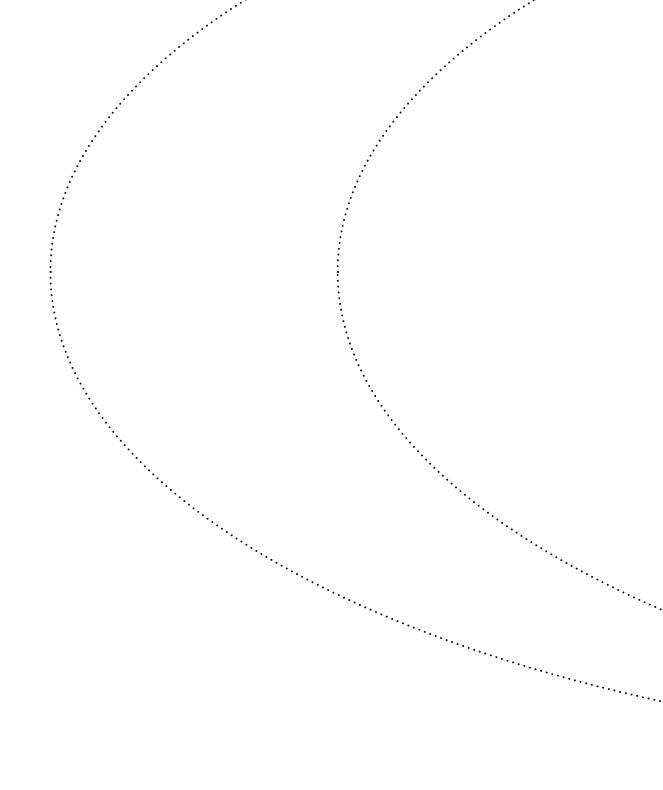


DMC-LCAC-Gateway

For light commercial units up to 7.1kW ducted, compact cassette, cassette 84x84, floor/ceiling.

One gateway is required for each indoor unit (up to 255 gateways for each centralized control).

Interface to control light commercial R32 units up to 7.1kW via the M-V-CC-T255-G centralized control.





Due to the continuous technological evolution of the products, we reserve the right to change the technical specifications in this catalogue at any time and without prior notice.

The products shown are only examples of the application types. The energy efficiency values refer to measurements carried out according to the following harmonised standards: EN14511; EN14825; EN16147.





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