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HEAT PUMP - AEROTHERMAL MULTITASKING HIGH POWER MONOBLOC MAM-V10T Series

- Power from 18 to 30 kW.
- Fully hydraulic installation.
- Variable speed circulating pump.
- Keymark certification.
- Low noise level.
- Wide range of operating water temperatures.
- Operation under low outdoor temperatures.
- Multiple uses: heating, cooling and/or Domestic Hot Water.
- Up to two configurable zones.
- Possibility of cascade installation of up to 6 units.
- Control included with schedule and weekly programming.
- Anti-legionella configurable mode.
- Hybridization with a thermal solar system that can be integrated into the panel.
- Smart Grid function for hybridization with a photovoltaic installation.
- WIFI connection for control through app.

Download "iLetComfort" application



DIAGRAM

V to 180 kW

INCLUDED ISSUE CEN KEYMARK

MUND



MULTITASKING FAN HEATER High Power Monobloc Heat Pump Series V10



TECHNICAL SPECIFICATIONS

Model				MAM-18-V10T	MAM-22-V10T	MAM-26-V10T	MAM-30-V10T
Code				CL45210	CL45211	CL45212	CL45213
		Capacity	kW	18.0	22.0	26.0	30.1
		Consumption	kW	3.83	5.00	6.37	7.70
	Conditions 1	COP		4.70	4.40	4.08	3.91
	Air: 7 °C / 85 % RH	SCOP		4.60	4.53	4.50	4.20
	Water: 30 / 35 °C	ηs	%	181	178	177	165
		Energy efficiency c		A+++	A+++	A+++	A++
	Conditions 2 Air: 7 °C / 85 % RH Water: 40 / 45 °C	Capacity	kW	18.00	22.00	26.00	30.00
Heating (middle zone)		Consumption	kW	5.14	6.47	8.39	10.35
		COP		3.50	3.40	3.10	2.90
		Capacity	kW	18.00	22.00	26.00	30.00
	Conditions 3 Air: 7 °C / 85 % RH Water: 47 / 55 °C	Consumption	kW	6.55	8.30	10.61	13.04
		COP	NVV	2.75	2.65	2.45	2.30
		SCOP		3.20	3.23	3.15	3.15
			%	125	126	123	123
		ηs Faargy officiency of					
		Energy efficiency c	-	A++ 18.50	A++	A+	A+
	Conditions 4	Capacity	kW	18.50	23.00	27.00	31.00
	Air: 35 °C	Consumption	kW	3.90	5.00	6.28	7.75
	Water: 23 / 18 °C	EER		4.75	4.60	4.30	4.00
Cooling		SEER		5.48	5.67	5.88	5.71
·	Conditions 5	Capacity	kW	17.00	21.00	26.00	29.50
	Air: 35 °C	Consumption	kW	5.57	7.12	9.63	11.57
	Water: 12 / 7 °C	EER		3.05	2.95	2.70	2.55
		SEER		4.70	4.70	4.66	4.49
Plate-type heat	Water volume		L	3.5	3.5	3.5	3.5
exchanger	Maximum pressure drop		kPa	112	112	112	112
Water pump	Model			Yonos FOR HF 25/12			
	Nominal flow		m³/h	3.10	3.78	4.47	5.18
	Height		m	12	12	12	12
Hudraulio			111	12	12	12	12
Hydraulic connections Inlet/outlet water			mm	DN 32	DN 32	DN 32	DN 32
Expansion tank volume L				8	8	8	8
Safety valve		MPa	0.3	0.3	0.3	0.3	
Fan	Air flow rate		m³/h	11,000	11,000	11,300	11,300
Compressor	Brand			Mitsubishi Electric	Mitsubishi Electric	Mitsubishi Electric	Mitsubishi Electric
00110163301	Model			LVB53FCAMC	LVB53FCAMC	LVB53FCAMC	LVB53FCAMC
Sound pressure			dB(A)	57.6	59.8	61.5	63.5
Sound power			dB(A)	71	73	75	77
Dimensions (W x H x D)			mm	1129 x 1558 x 440			
Weight			kg	177	177	177	177
Refrigerant	Type / GWP			R32 / 675	R32 / 675	R32 / 675	R32 / 675
	Charge		kg	5	5	5	5
	CO ₂ equivalence		TCO ₂ eq	3.38	3.38	3.38	3.38
Electrical data	Power supply		V / Hz / Ph	380 - 415 / 50 / 3	380 - 415 / 50 / 3	380 - 415 / 50 / 3	380 - 415 / 50 / 3
	Nominal / max. current		A	18 / 21	21 / 24.5	24 / 27	28 / 28.5
	Power cable (1)		mm ²	4 x 6 + T	4 x 6 + T	4 x 6 + T	4 x 6 + T
Operating temperature range Cooling Heating		°C	-5 ~ 46	-5 ~ 46	-5 ~ 46	-5 ~ 46	
		°C	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	
	-		°C	-25 ~ 43	-25 ~ 43	-25 ~ 43	-25 ~ 43
		DHW	0				
							5~25
Water supply temp	erature rance	Cooling Heating	0° 0° 0° 0°	5 ~ 25 25 ~ 60			

⁽¹⁾ Recommended power wiring for L < 20 m, it should be calculated according to the conditions of each installation.

Warnings: Data and specifications can be changed without previous notice.

Features Description



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WEEKLY TIMER

Sets the weekly operation of the unit.

FOLLOW ME FUNCTION (IFEEL) The remote control incorporates an ambient temperature sensor.

AUTOMATIC RESTART Recovery of the parameters before the electrical cut.

EMERGENCY OPERATION

Possibility of manually operating the unit with the button in case of any alarms sounding.



Turbo

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COLD AIR PRECAUTION

When heating, the initial fan speed is adjusted according to the battery temperature.

TURBO OPERATION

Maximum reduction of the cooling/ heating time.

LOW SOUND LEVEL Thanks to the Silence mode and its new design, the sound level is reduced to the minimum.

TEMPERATURE COMPENSATION The remote control allows you to

adjust the compensation temperature for the heating and cooling mode.



FRESH AIR (ION)

The equipment incorporates an ionizer to generate OH(-) and thus purify the air by deactivating bacteria, viruses and other contaminants in the environment, providing a very pleasant feeling of freshness.



BREEZE AWAY

Function that allows the air flow to be diverted to another place to prevent the equipment from blowing directly on people.



QUIETER OUTDOOR UNIT

Optimized design of air outlet grille with noise reduction of 3.3 dB(A) compared to previous models.



WIDE WORKING RANGE Cooling operation until 50 °C and -15 °C in heating.





Possibility for the unit to be controlled via WIFI, through an APP.



ENERGY LABELLING FOR COOLING A+++ ENERGY LABELLING



FOR COOLING A++ ENERGY LABELLING FOR COOLING A⁺



ENERGY LABELLING FOR COOLING A



R410A Equipment using refrigerant R410A with a GWP of 2088.



NIGHT MODE

Makes the unit operate according to the preset nighttime temperature curve, which creates an ideal nighttime environment and improves sleep quality.

DAILY TIMER

The timer can be set to start and stop at any point in a 24-hour period.

360° DESIGN

Thanks to the 360° panel design, the air is more evenly distributed.



HORIZONTAL AND VERTICAL FLAP ROTATION

Better air distribution thanks to the flap's horizontal and vertical automatic swing.

GEAR

Allows to set the equipment capacity to 50 %, 75 % or 100 % (default).



COLD CATALYST FILTER

The equipment features a purifying filter that can absorb formaldehyde without needing ultra-violet light.

SPRINT START

Like a sprinter, this function allows the compressor to reach 65 Hz in just 6 s.

HUMIDITY CONTROL

In dehumidification mode, the relative humidity control can be set between 35 % and 85 %.



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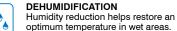
DRY

Allows operation with only ventilation. THERMOSTAT



It automatically maintains the set temperature.

VENTILATION FUNCTION





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R32

MULTI-SPEED INDOOR FAN The fan has up to 12 different speeds that are automatically adjusted if the automatic ventilation is activated.



CENTRALIZED CONTROLLER Possibility of controlling several units with the same controller.



ENERGY LABELLING FOR HEATING A++





R32



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1 W

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R290 Equipment using the new refrigerant R290 which has a GWP of only 3.

save energy.

MUNDSCLIMA

Comfort

SILENCE This function allows you to select the ultra-quiet speed, so that the sound level of the equipment is very low.

CONTROL PANEL



A control panel is added to run the machine without any wireless remote control.



DUAL AIR FLOW

Top and bottom air outlet. In cooling mode only the upper outlet works, and in heating mode both outlets work, thus heating from ground level.



CORE GENIUS

The frequency of traditional Inverter equipment has a fluctuation of ± 1 °C of the ambient temperature during operation. However, with the new "CORE GENIUS" Inverter technology that adjusts 0.6 Hz for each step, the frequency variation of the Inverter is so smooth that the ± 0.5 °C fluctuation of the ambient temperature is not noticeable.



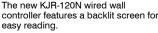
INDIVIDUAL FLAP CONTROL

Possibility to adjust the angle of the 4 flaps independently.

120° The upper slat allows an adjustment



BACKLIT WALL CONTROL







at 120°.

The unit automatically switches to heating mode when the ambient temperature is below 8 °C, thus preventing the room temperature from being too low when we are not at

Possibility of connection with the main

manufacturers of home automation



DOMOTICS

systems (Consult).

STANDBY FUNCTION

PRESENCE SENSOR

(ONLY 1W IN STANDBY)

The outdoor unit is automatically disconnected from the power supply when

the unit is in standby, that way the

consumption in standby mode is only 1W.

Detects inactivity (30 min) in the room to reduce the operating frequency and thus





environmentally friendly refrigerant R32

with a GWP of 675. In order to install equipment with R32 refrigerant gas, you must review the current legislation.

Equipment using the most

Refrigerant

Connectivity

Energy efficiency

Features Description



REMOVABLE FILTERS

New filter fastening system with tabs to ensure correct fastening without vibrations.



OUTSIDE AIR INLET

Possibility of supplying outdoor air directly on the indoor unit.

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LED

DRAINAGE PUMP

Incorporates drainage pump to facilitate the drainage of the indoor unit.

REMINDER OF FILTER'S CLEANING

The equipment tells us when to clean and/or replace the air filter of the indoor unit.

PIPE COMPATIBILITY

Possibility of increasing one size over the standard diameter in the gas or liquid pipe or both.

DIGITAL LED DISPLAY

Equipment with a digital display showing the set temperature during normal operation or the ambient temperature in ventilation mode.

LESS SCREWS

Both the indoor unit and the outdoor unit have less screws, to make the disassembly easier.

REFRIGERANT LEAK DETECTION

The unit automatically detects the existence of possible leaks of refrigerant in the circuit.



SELF-CLEANING

This function performs a self cleaning on the indoor unit. When the "SELF-CLEANING" function is activated (SelfClean or iClean buttons), the unit initially operates in cooling mode with the fan at low speed, during this period the condensation water drags the dust from the battery. The unit then switches to heating mode with the fan at low speed, to dry the battery and the inside of the unit. Finally the unit changes to ventilation mode to finish drying completely.



ULTRA-REINFORCED MOUNTING PLATE

Reinforced mounting plate with measuring range and spirit level included



POWER SUPPLY ONLY TO OUTDOOR UNIT

The indoor unit is powered by the same interconnection cable with the outdoor unit.



SINGLE-FAN OUTDOOR UNITS Optimize outdoor space thanks to

outdoor units with lower height.



SUPER DC

Equipment that has both. DC Inverter compressor and DC fan motors.

COOLING AT LOW TEMPERATURES Cooling operation down to -15 °C outside.

HEATING AT LOW TEMPERATURES Heating operation down to -25 °C outside.

CONSTANT AIR FLOW CONTROL The indoor fan adjusts to the required static pressure to ensure a constant air supply at all times.



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165V

HIGH STATIC PRESSURE Wide static pressure range.

SET TEMPERATURES RANGE ADJUSTMENT

The remote control is able to adjust: minimum cooling from 16 °C up to 24 °C; maximum heating from 30 °C down to 25 °C.

LEG IN U FORM

Thanks to the new back leg in the outdoor unit, the installation is easier.

LOW VOLTAGE START

The equipment can start up and operate normally up to a supply voltage lower than the nominal voltage.

PROBLEM SOLVING

Error codes are displayed on the indoor panel, on the wall control or on the outdoor PCB.



CONFIGURABLE STATIC



PRESSURE From the PCB (or any model with the wireless or wired remote control) the static pressure of the fan can be adjusted, so that the machine can be adapted to each installation.

CONFIGURABLE RETURN

The air intake can be set up either at the rear or at the bottom of the unit. By default, it is set up at the rear.



ROTACIÓN

BACK-UP

TWIN FUNCTION (2×1) Two indoor units can be connected to the same outdoor unit. Both indoor units will function

identically as if they were one single unit. It is perfect for open rooms.

REVERSE ROTATION

When the unit is stopped, the outdoor unit fan rotates backwards to remove leaves or other external elements from the coil.

ROTATION & BACK UP

This function allows redundant operation in installations with 2 units connected to the same KJR-120N wired controller, in the event that one machine does not reach the set temperature, the two machines will automatically start operating together at 24 °C in the selected mode. At the same time a rotation in the operation of the 2 machines is carried out so that both machines operate for the same amount of time.



OUT

0-10V

Note: This Features Description is generic, you will find the icons that apply to this data sheet in the header of the first page of the data sheet.

DC Unit with DC fan motor. low noise and low-energy consumption.



EVI COMPRESSOR

High efficiency asymmetric scroll compressor with steam injection technology.

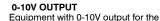


Unit with DC fan motor with 0-10V



regulation.

control of an auxiliary valve.





AIR DISCHARGE TUBE TO THE OUTSIDE



Easy and quick to install, it allows the use of the air conditioner immediately.

MUND CLIMA®

Easy installation and maintenance



CONDENSATE REMOVAL

AUTO ROUTING

automatically.

300 mm.

ROOM

The outdoor unit can assign

ENGINEERING MODE

EXTRA FLAT DUCT

an adjacent room.

addresses to the indoor units

Function adjustment and operating

parameters query using the control.

Indoor unit height between 200 and

DELIVERY OUTLET TO ADJACENT

The unit has pre-drilled outlets for

connecting a small duct to climatize

Removes condensate water so it is not necessary to connect the air conditioner to a drain. In dehumidification mode and in very humid environments, it is recommended to connect the equipment to a drain.



PANEL OF COMPACT SIZE

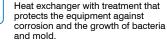
The grid panel of the cassette type unit measures 600×600 mm.



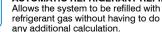


Heat exchanger with special treatment, which protects the equipment against atmospheric phenomena and the effects of aggressive environments. It also prevents the proliferation of bacteria and mold.

BLUE FIN



AUTOMATIC REFRIGERANT REFILL



HORIZONTAL / VERTICAL

Equipment that can be installed in both horizontal and vertical position.

META FUNCTION



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Advanced air conditioning technology that optimizes temperature, refrigerant and air flow to save energy and maximize the comfort.

EXTERNAL FAN DIFFERENT

Equipment with an electronic

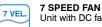
expansion valve that adjusts the

capacity of the equipment in a more

thanks to the DC motor.

Accurate adjustment of fan speed

Technology



SPEEDS

stable way.

EXV

Unit with DC fan motor with 7 speeds.

•	
5	×
-	
7	