SWIMMING POOL INVERTER HEAT PUMP

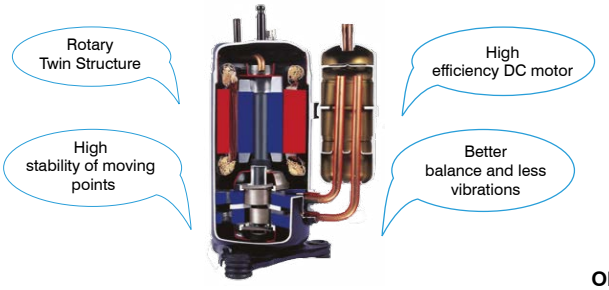
MUNDOCLIMA® SUPER DC INVERTER

MUPIR-H9 Series

Super DC Inverter heat pump for swimming pools

DC INVERTER TWIN ROTARY COMPRESSOR

Thanks to the Twin DC Inverter Rotary compressor it is possible to reduce the electrical consumption, since the frequency of the compressor is adjusted from Hz to Hz between 20 and 100 Hz.



R32

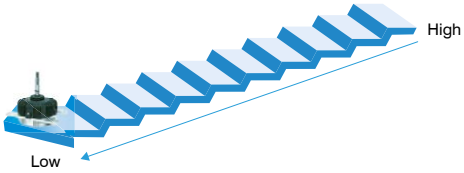
OPTIONALS

WIFI

WF-MUPIR
(CL 09 003)

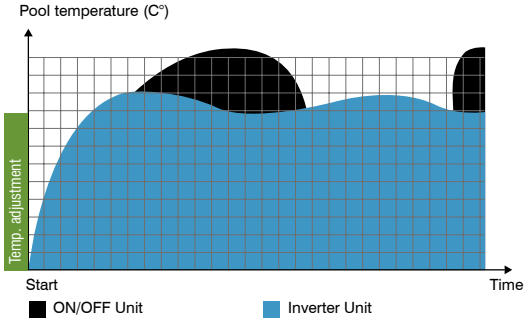
DC FAN MOTORS

The fan speed is adjusted according to the compressor frequency and the room temperature.



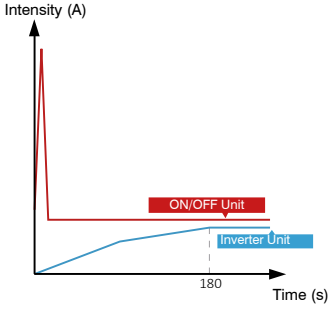
WATER TEMPERATURE MUCH MORE STABLE

When the pool reaches the setpoint temperature, the heat pump does not stop, it works at a low frequency to keep the water temperature stable.



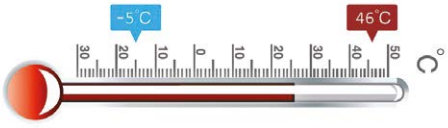
SOFT START

Inverter technology allows a soft start, minimizing the consumption during the start and avoiding, in this way, the starting peak of the ON / OFF units.



OPERATION UNDER LOW TEMPERATURES

The condensation control of the fan allows the unit to operate from -5 °C up to 46 °C.



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TITANIUM EXCHANGER

The titanium spiral exchanger ensures greater durability and reliability compared to other conventional units.

ABS PLASTIC CASE

The benefits of ABS plastic give great resistance against corrosive elements and at the same time rigidity and tenacity.

BUILT-IN CONTROL PANEL

The unit adds a control panel from which all of its operations are managed.

WINTER COVER

A cover is included with the accessories to protect the unit during the time it is not in use.

MULTIPLE OPERATING MODES

Up to 3 different operating modes to run the unit according to the needs of each moment.

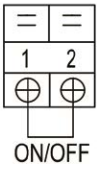
BOOST MODE
Fast heating
20% ~ 100% capacity

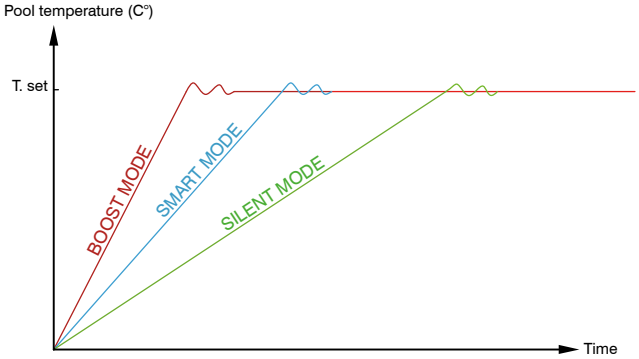
SMART MODE
Standard Operation
20% ~ 80% capacity

SILENT MODE
Night Mode
20% ~ 50% capacity

REMOTE ON / OFF

It has an input to perform the remote start / stop operation through a potential-free contact.





MUPIR-H9 Series INVERTER HEAT PUMP

MUNDOCLIMA® SUPER DC INVERTER

TECHNICAL SPECIFICATIONS

Model				MUPIR-11-H9	MUPIR-17-H9	MUPIR-21-H9(V2)
Code				CL 25 560	CL 25 561	CL 25 563
EAN				8432953052096	8432953052102	8432953046101
Heating	Air 26 °C / Water 26 °C / Humidity 80%	Capacity (mín. - max.)	kW	2.70 ~ 10.90	4.30 ~ 17.40	4.8 ~ 21.1
		Consumption (min. - max.)	kW	0.18 ~ 1.74	0.29 ~ 2.85	0.33 ~ 3.38
		COP (max. - min.)	kW	14.8 ~ 6.27	14.50 ~ 6.00	14.55 ~ 6.36
	Air 15 °C / Water 26 °C / Humidity 70%	Capacity (mín. - max.)	kW	2.18 ~ 8.13	3.49 ~ 13.00	3.76 ~ 15.7
		Consumption (min. - max.)	kW	0.28 ~ 1.59	0.47 ~ 2.64	0.48 ~ 2.75
		COP (max. - min.)	kW	7.8 ~ 4.9	7.44 ~ 4.85	7.52 ~ 5.10
Cooling	Air 35 °C / Water 28 °C / Humidity 80%	Capacity (mín. - max.)	kW	2.40 ~ 6.00	3.90 ~ 9.60	4.3 ~ 11.5
		Consumption (min. - max.)	kW	0.33 ~ 1.39	0.51 ~ 2.30	0.57 ~ 2.62
		EER (max. - min.)	kW	7.34 ~ 4.32	7.40 ~ 4.24	7.48 ~ 4.38
Sound pressure (1)	a 1m		dB (A)	38.3 ~ 48.1	41.5 ~ 52.5	42.3 ~ 53.1
	a 10m		dB (A)	20.6 ~ 28.2	23.0 ~ 31.8	23.6 ~ 32.2
Fan	Type			DC - Axial	DC - Axial	DC - Axial
	Air flow rate		m^3/h	3,500 ~ 4,000	3,500 ~ 4,000	1,100 ~ 5,200
Compressor	Type			Inverter DC Twin Rotary		
	Brand			GMCC	GMCC	GMCC
	Model			KTN150D42UFZ	KTM240D57UMT	KTF310D43UMT
Refrigerant	Type			R32	R32	R32
	Load		kg	1.1	1.7	1.8
	GWP			675	675	675
	CO2 equivalent		Tons	0.7425	1.1475	1.215
Hydraulic data	Type of exchanger			Titanium with PVC case		
	Required water flow		m^3/h	4 ~ 6	6 ~ 8	7 ~ 9
	Water pressure drop		kPa	18	19	27.0
	Hydraulic connections		mm (inch)	G1-1/2	G1-1/2	G1-1/2
Electrical Data	Power supply		V - Hz - Ph	220 - 240 V ~ 50 Hz, 1 Ph		
	Max. current		A	8.4	13.77	14.3
	Recommended electrical wiring		mm^2	2 x 4 + T	2 x 4 + T	2 x 4 + T
Body	Material			ABS plastic	ABS plastic	ABS plastic
	Protection degree			IPX4	IPX4	IPX4
	Dimensions (W x H x D)		mm	986 x 668 x 356	986 x 668 x 356	1,076 x 720 x 426
	Weight		kg	44	56	67
Setpoint temperatures range	Heating		°C	15 ~ 40	15 ~ 40	15 ~ 40
	Cooling		°C	8 ~ 25	8 ~ 25	8 ~ 25
Operating temperature range			°C	-5 ~ 43	-5 ~ 43	-5 ~ 43
Recommended water volume for the pool (with thermal blanket) (2)			m^3	25 ~ 50	35 ~ 70	40 ~ 80

Notes:

(1) The values of sound pressure match with those obtained in the semi-anechoic chamber.

(2) It is recommended to carry out a preliminary study to analyze if the heat pump is adequate.

Warning: - Data and specifications can be changed without previous notice.