## PRODUCT INFORMATION(1)

Model(s): Information to identify the model(s) to which the information relates:

Outdoor: PUHZ-SHW230YKA2 Indoor: PLA-ZM100EA2 ×2 units

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

Type: compressor driven vapour compression

If applicable: driver of compressor: electric motor

If applicable: driver of o	compressor:	electric mo	otor					
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	P <sub>rated,c</sub>	19,00	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	189,4	%
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19 °C (dry/wet bulb)					Declared energy efficiency ratio for part load at given outdoor temperatures Tj			
Tj = + 35 °C	Pdc	19,00	kW		Tj = + 35 °C	EER₀	3,39	_
Tj = + 30 °C	Pdc	14,00	kW		Tj = + 30 °C	EER₀	4,56	_
Tj = + 25 °C	Pdc	14,30	kW		Tj = + 25 °C	EER₀	5,67	_
Tj = + 20 °C	Pdc	14,90	kW		Tj = + 20 °C	EER₀	6,74	_
Degradation co-efficient for air conditioners(*)	C <sub>dc</sub>	0,25	_					
	Р	ower consu	umption in mo	ode	s other than 'active mod	e'		
Off mode	P <sub>OFF</sub>	0,020	kW		Crankcase heater mode	Рск	0,000	kW
Thermostat-off mode	P <sub>TO</sub>	0,020	kW		Standby mode	P <sub>SB</sub>	0,020	kW
			Oth	:4				
	1		Oth	erit	ems	1		
Capacity control	variable				For air-to-air air conditioner: air flow rate, outdoor measured	_	8400	m³/h
Sound power level, indoor/outdoor	L <sub>WA</sub>	<b>- / 75,0</b>	dB					
If engine driven: Emissions of nitrogen oxides	NO <sub>x</sub> (**)	_	mg/kWh fuel input GCV					
GWP of the refrigerant		2088	kg CO <sub>2 eq</sub> (100 years)					
Contact details			RIC CORPOF hizuoka 422-		ION SHIZUOKA WORK 8, Japan	S 3-18-1,		

<sup>(\*)</sup> If  $C_{dc}$  is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25. (\*\*) From 26 September 2018.

Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

(1) This information is based on COMMISSION REGULATION (EU) 2016/2281

## Recycle

Your MITSUBISHI ELECTRIC product is designed and manufactured with high quality materials and components which can be recycled and reused.

Electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste.

Please, dispose of this equipment at your local community waste collection/recycling center.

In the European Union there are separate collection systems for used electrical and electronic product.

Please, help us to conserve the environment we live in!

## PRODUCT INFORMATION(1)

Information to identify the model(s) to which the information relates:

Outdoor: PUHZ-SHW230YKA2 Indoor: PLA-ZM100EA2 ×2 units

Outdoor side heat exchanger of heat pump: air

Indoor side heat exchanger of heat pump: air

Indication if the heater is equipped with a supplementary heater: no

If applicable: driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

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Item	Symbol	Value	Unit		Item	Symbol	Value	Unit	
Rated heating capacity	P <sub>rated,h</sub>	22,40	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	137,2	%	
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj					Declared coefficient of performance for part load at given outdoor temperatures Tj				
Tj = - 7 °C	Pdh	20,30	kW		Tj = - 7 °C	COP <sub>d</sub>	2,52	_	
Tj = + 2 °C	Pdh	12,40	kW		Tj = + 2 °C	COP <sub>d</sub>	3,47	_	
Tj = + 7 °C	Pdh	11,50	kW		Tj = + 7 °C	COP <sub>d</sub>	4,61	_	
Tj = + 12 °C	Pdh	13,60	kW		Tj = + 12 °C	COP <sub>d</sub>	5,29	-	
T <sub>biv</sub> = bivalent temperature	Pdh	24,00	kW		T <sub>biv</sub> = bivalent temperature	COP <sub>d</sub>	2,04	_	
T <sub>OL</sub> = operation limit	Pdh	14,70	kW		T <sub>OL</sub> = operation limit	COP <sub>d</sub>	1,36	_	
For air-to-water heat pumps: Tj = $-15$ °C (if $T_{OL}$ < $-20$ °C)	Pdh	_	kW		For water-to-air heat pumps: Tj = - 15 °C (if T <sub>OL</sub> < - 20 °C)	COP <sub>d</sub>	_	-	
Bivalent temperature	T <sub>biv</sub>	-10	°C		For water-to-air heat pumps: Operation limit temperature	T <sub>ol</sub>	_	°C	
Degradation co-efficient heat pumps(**)	$C_{dh}$	0,25	_						
Power consumption in modes other than 'active mode'					Supplementary heater				
Off mode	P <sub>OFF</sub>	0,020	kW		Back-up heating capacity (*)	elbu	0,000	kW	
Thermostat-off mode	P <sub>TO</sub>	0,040	kW		Type of energy input				
Crankcase heater mode	P <sub>CK</sub>	0,000	kW		Standby mode	P <sub>SB</sub>	0,020	kW	
			Oth	er it	ems				
Capacity control		variable			For air-to-air heat pumps: air flow rate, outdoor measured	-	8400	m³/h	
Sound power level, indoor/outdoor	L <sub>WA</sub>	<b>- / 75,0</b>	dB		For water/brine-to-air heat pumps: Rated	-	-	m³/h	
Emissions of nitrogen oxides (if applicable)	NO <sub>x</sub> (***)	_	mg/kWh fuel input GCV		brine or water flow rate, outdoor side heat exchanger				
GWP of the refrigerant		2088	kg CO <sub>2 eq</sub> (100 years)						
Contact details			RIC CORPOF hizuoka 422-		ION SHIZUOKA WORK 8, Japan	S 3-18-1,			

<sup>(\*) (\*\*)</sup> If  $C_{dh}$  is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25. (\*\*\*) From 26 September 2018.

Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

<sup>(1)</sup> This information is based on COMMISSION REGULATION (EU) 2016/2281