Product specification (Mitsubishi PUZ-ZM140YKA)

(1250 x 1250 x 300 deep and be wall mounted)



PRODUCT INFORMATION(1)

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

Outdoor: PUZ-ZM140YKA

Indoor: PEAD-M140JAL

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

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated cooling capacity	P _{rated,c}	13,40	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	235,4	%	
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	13,40	kW	Tj = + 35 °C	EER _d	3,71	_	
Tj = + 30 °C	Pdc	9,90	kW	Tj = + 30 °C	EER _d	5,10	_	
Tj = + 25 °C	Pdc	6,40	kW	Tj = + 25 °C	EER _d	7,10	_	
Tj = + 20 °C	Pdc	4,50	kW	Tj = + 20 °C	EER _d	7,90	_	
Degradation co-efficient for air conditioners(*)	C _{dc}	0,25	-					

Off mode	P _{OFF}	0,023	kW	Crankcase heater mode	Р _{ск}	0,000	kW
Thermostat-off mode	P _{TO}	0,015	kW	Standby mode	P_{SB}	0,023	kW

Other items

			Our	ems					
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor measured	_	7200	m³/h		
Sound power level, indoor/outdoor	L _{WA}	67,0 / 70,0	dB						
If engine driven: Emissions of nitrogen oxides	NO _x (**)	_	mg/kWh fuel input GCV						
GWP of the refrigerant		675	kg CO _{2 eq} (100 years)						
Contact details			RIC CORPOF hizuoka 422-	ION SHIZUOKA WORK 8, Japan	S 3-18-1,				

(*) 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: PUZ-ZM140YKA

Indoor: PEAD-M140JAL

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.

P _{rated,h}	16,00			Cassanalanass					
		kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	157,4	%		
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				
Pdh	9,30	kW		Tj = - 7 °C	COP _d	3,00	_		
Pdh	6,00	kW		Tj = + 2 °C	COP _d	4,00	_		
Pdh	4,00	kW		Tj = + 7 °C	COP _d	4,70	_		
Pdh	4,10	kW		Tj = + 12 °C	COP _d	5,50	_		
Pdh	10,60	kW		T _{biv} = bivalent temperature	COP_d	2,70	_		
Pdh	7,90	kW		T _{oL} = operation limit	COP _d	1,50	_		
Pdh	_	kW		For water-to-air heat pumps: Tj = -15 °C (if T _{oL} < -20 °C)	COP _d	_	_		
T _{biv}	-10	°C		For water-to-air heat pumps: Operation limit temperature	T _{ol}	_	°C		
C _{dh}	0,25	_							
Power consumption in modes other than 'active mode'				Supplementary heater					
P _{OFF}	0,023	kW		Back-up heating capacity (*)	elbu	0,000	kW		
P _{TO}	0,015	kW		Type of energy input					
Р _{ск}	0,000	kW		Standby mode	P_{SB}	0,023	kW		
		Othe	ər it	ems					
	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Tbiv Cdh Cdh POFF PTO	Pdh 9,30 Pdh 6,00 Pdh 4,00 Pdh 4,00 Pdh 4,10 Pdh 10,60 Pdh 7,90 Pdh - T _{biv} -10 C _{dh} 0,25 modes other than 'ac P _{OFF} 0,023 P _{TO} 0,015	Pdh 9,30 kW Pdh 6,00 kW Pdh 4,00 kW Pdh 4,00 kW Pdh 4,00 kW Pdh 4,10 kW Pdh 10,60 kW Pdh 7,90 kW Pdh - kW Pdh - kW Pdh - 0°C T _{biv} -10 °C C _{dh} 0,25 - modes other than 'active mode' P _{OFF} 0,023 kW P _{TO} 0,015 kW R	Pdh 9,30 kW Pdh 6,00 kW Pdh 4,00 kW Pdh 4,00 kW Pdh 4,10 kW Pdh 10,60 kW Pdh 7,90 kW Pdh 7,90 kW Pdh 7,90 kW Pdh - kW Pdh - kW Pdh - - Pdh - - - Pdh - - - Pdh - - - Pdh - - - Tbiv -10 °C - Cdh 0,255 - - Modes other than 'active mode' - - PoFF 0,023 kW - PoK 0,000 kW -	Pdh9,30kW $Tj = -7 \ ^{\circ}C$ Pdh6,00kW $Tj = +2 \ ^{\circ}C$ Pdh4,00kW $Tj = +7 \ ^{\circ}C$ Pdh4,10kW $Tj = +7 \ ^{\circ}C$ Pdh4,10kW $Tj = +12 \ ^{\circ}C$ Pdh10,60kW $T_{oL} = \text{operation limit}$ Pdh7,90kW $T_{oL} = \text{operation limit}$ Pdh7,90kW $T_{oL} = \text{operation limit}$ Pdh-kWFor water-to-air heat pumps: $Tj = -15 \ ^{\circ}C$ (if $T_{oL} < -20 \ ^{\circ}C$) T_{biv} -10 $^{\circ}C$ For water-to-air heat pumps: Operation limit temperature C_{dh} 0,25-Image: Comparison limit temperature P_{OFF} 0,023kWBack-up heating capacity (*) P_{TO} 0,015kWType of energy input	Intemperature Tjat given outdoor temperature TjPdh9,30kWTj = -7 °CCOPdPdh6,00kWTj = + 2 °CCOPdPdh4,00kWTj = + 7 °CCOPdPdh4,10kWTj = + 12 °CCOPdPdh10,60kWTj = + 12 °CCOPdPdh10,60kWTotal = operation limitCOPdPdh7,90kWTotal = operation limitCOPdPdh-kWFor water-to-air heat pumps: Tj = -15 °C (if Total < -20 °C)	at given outdoor temperatures Tj Pdh 9,30 kW Tj = -7 °C COP _d 3,00 Pdh 6,00 kW Tj = + 2 °C COP _d 4,00 Pdh 4,00 kW Tj = + 2 °C COP _d 4,00 Pdh 4,00 kW Tj = + 2 °C COP _d 4,00 Pdh 4,10 kW Tj = + 12 °C COP _d 5,50 Pdh 10,60 kW Tj = + 12 °C COP _d 2,70 Pdh 790 kW Tot = operation limit COP _d 1,50 Pdh 7,90 kW Tot = operation limit COP _d 1,50 Pdh - kW For water-to-air heat pumps: Tj = -15 °C (if $T_{OL} < -20 °C$) COP _d - T _{biv} -10 °C For water-to-air heat pumps: Operation limit temperature Toi - C _{dh} 0,25 - Supt Supt O - C _{dh} 0,25 - Back-up heating capacity (*) elbu 0,000 P _{OFF} 0,015 KW Type of energy		

For air-to-air heat m³/h 7200 variable pumps: air flow rate, Capacity control outdoor measured Sound power level, For water/brine-to-air 67,0 / 72,0 dB L_{WA} indoor/outdoor heat pumps: Rated m³/h brine or water flow mg/kWh Emissions of nitrogen rate, outdoor side heat $NO_{x}(***)$ fuel input oxides (if applicable) exchanger GCV $kg \ CO_{2 \ eq}$ GWP of the refrigerant 675 (100 years) MITSUBISHI ELECTRIC CORPORATION SHIZUOKA WORKS 3-18-1, Contact details Oshika, Suruga-ku, Shizuoka 422-8528, Japan

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

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