PRODUCT INFORMATION
PUHY-HP＊＊＊YNW-A
For Europe Regulation

PRODUCT INFORMATION(1)

Model(s): Information to identify the model(s) to which the information relates: Outdoor : PUHY-HP200YNW-A Indoor : PEFY-M50VMA(L)-A1×4 units							
Outdoor heat exchanger of air conditioner: air							
Indoor 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	$P_{rated,c}$	**22.40**	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	**257.0**	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27ºC/19ºC (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j = +35 ºC	Pdc	**22.40**	kW	T_j = +35 ºC	EER_d	**3.47**	~~%~~
T_j = + 30 ºC	Pdc	**16.51**	kW	T_j = + 30 ºC	EER_d	**5.11**	~~%~~
T_j = + 25 ºC	Pdc	**10.61**	kW	T_j = + 25 ºC	EER_d	**8.50**	~~%~~
T_j = + 20 ºC	Pdc	**9.30**	kW	T_j = + 20 ºC	EER_d	**11.08**	~~%~~
Degradation co-efficient air conditioners**	C_d	**0.25**	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	**0.055**	kW	Crankcase heater mode	P_{CK}	**0.023**	kW
Thermostat-off mode	P_{TO}	**0.023**	kW	Standby mode	P_{SB}	**0.055**	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	**11400**	m³/h
Sound power level, outdoor	L_{WA}	**73**	dB				
if engine driven: Emissions of nitrogen oxides	NO_x	-	mg/kWh fuel input GCV				
GWP of the refrigerant		**2088**	kg $CO_{2\ ep}$ (100 years)				
Contact details	MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. Amata Nakorn Industrial Estate, 700/406 Moo 7, Tambon Don Hua Roh, Amphur Muang, Chonburi 20000, Thailand						
** If C_d is not determined by measurement then the default degradation coefficient air conditioners shall be 0.25. 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.							

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Outdoor heat exchanger of heat pump: air							
Indoor heat exchanger of heat pump: air							
Indication if the heater is equipped with a supplementary heater: no							
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	**22.40**	kW	Seasonal space heating	$\eta_{s,h}$	**143.0**	%
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j = - 7 ºC	Pdh	**10.11**	kW	T_j = - 7 ºC	COP_d	**2.33**	~~%~~
T_j = + 2 ºC	Pdh	**6.15**	kW	T_j = + 2 ºC	COP_d	**3.55**	~~%~~
T_j = + 7 ºC	Pdh	**3.96**	kW	T_j = + 7 ºC	COP_d	**4.98**	~~%~~
T_j = + 12 ºC	Pdh	**6.91**	kW	T_j = + 12 ºC	COP_d	**6.56**	~~%~~
T_j = bivalent temperature	Pdh	**11.43**	kW	T_j = bivalent temperature	COP_d	**2.01**	~~%~~
T_j = operation limit	Pdh	**11.43**	kW	T_j = operation limit	COP_d	**2.01**	~~%~~
For air-to-water heat pumps: T_j = - 15 ºC (if T_{OL} < - 20 ºC)	Pdh	-	kW	For water-to-air heat pumps: T_j = - 15 ºC (if T_{OL} < -20 ºC)	COP_d	-	~~%~~
Bivalent temperature	T_{biv}	**-10.0**	ºC	For water-to-air heat pumps: Operation limit temperature	T_{ol}	-	ºC
Degradation co-efficient heat pumps**	C_{dh}	**0.25**	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	**0.055**	kW	Electric back-up heating capacity *	elbu	**0.000**	kW
Thermostat-off mode	P_{TO}	**0.116**	kW	Type of energy input			
Crankcase heater mode	P_{CK}	**0.023**	kW	Standby mode	P_{SB}	**0.133**	kW
Other items							
Capacity control	variable			For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	**11400**	m³/h
Sound power level, indoor / outdoor measured	L_{WA}	**73**	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Emissions of nitrogen oxides (if applicable)	NO_x	-	mg/kWh				
GWP of the refrigerant		**2088**	kg $CO_{2\ ep}$ (100 years)				
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** If C_d is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25. 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.							

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Model(s): Information to identify the model(s) to which the information relates: Outdoor : PUHY-HP250YNW-A Indoor : PEFY-M63VMA(L)-A1×4 units							
Outdoor heat exchanger of air conditioner: air							
Indoor 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	$P_{rated,c}$	**28.00**	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	**256.0**	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j = +35 °C	Pdc	**28.00**	kW	T_j = +35 °C	EER_d	**3.64**	~~%~~
T_j = + 30 °C	Pdc	**20.63**	kW	T_j = + 30 °C	EER_d	**5.08**	~~%~~
T_j = + 25 °C	Pdc	**13.26**	kW	T_j = + 25 °C	EER_d	**8.28**	~~%~~
T_j = + 20 °C	Pdc	**12.3**	kW	T_j = + 20 °C	EER_d	**10.48**	~~%~~
Degradation co-efficient air conditioners**	C_d	**0.25**	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	**0.055**	kW	Crankcase heater mode	P_{CK}	**0.023**	kW
Thermostat-off mode	P_{TO}	**0.023**	kW	Standby mode	P_{SB}	**0.055**	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	**12600**	m³/h
Sound power level, outdoor	L_{WA}	**75**	dB				
if engine driven: Emissions of nitrogen oxides	NO_x	-	mg/kWh fuel input GCV				
GWP of the refrigerant		**2088**	kg $CO_{2\ ep}$ (100 years)				
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Outdoor heat exchanger of air conditioner: air							
Indoor heat exchanger of air conditioner: air							
Indication if the heater is equipped with a supplementary heater: no							
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	**28.00**	kW	Seasonal space heating	$\eta_{s,h}$	**146.0**	%
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j = - 7 ºC	Pdh	**12.63**	kW	T_j = - 7 ºC	COP_d	**2.29**	~~%~~
T_j = + 2 ºC	Pdh	**7.69**	kW	T_j = + 2 ºC	COP_d	**3.55**	~~%~~
T_j = + 7 ºC	Pdh	**4.94**	kW	T_j = + 7 ºC	COP_d	**5.40**	~~%~~
T_j = + 12 ºC	Pdh	**9.60**	kW	T_j = + 12 ºC	COP_d	**7.04**	~~%~~
T_j = bivalent temperature	Pdh	**14.28**	kW	T_j = bivalent temperature	COP_d	**1.96**	~~%~~
T_j = operation limit	Pdh	**14.28**	kW	T_j = operation limit	COP_d	**1.96**	~~%~~
For air-to-water heat pumps: T_j = - 15 ºC (if T_{OL} < - 20 ºC)	Pdh	-	kW	For water-to-air heat pumps: T_j = - 15 ºC (if T_{OL} < -20 ºC)	COP_d	-	~~%~~
Bivalent temperature	T_{biv}	**-10.0**	ºC	For water-to-air heat pumps: Operation limit temperature	T_{ol}	-	ºC
Degradation co-efficient heat pumps**	C_{dh}	**0.25**	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	**0.055**	kW	Electric back-up heating capacity *	elbu	**0.000**	kW
Thermostat-off mode	P_{TO}	**0.116**	kW	Type of energy input			
Crankcase heater mode	P_{CK}	**0.023**	kW	Standby mode	P_{SB}	**0.133**	kW
Other items							
Capacity control	variable			For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	**12600**	m³/h
Sound power level, indoor / outdoor measured	L_{WA}	**77**	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Emissions of nitrogen oxides (if applicable)	NO_x	-	mg/kWh				
GWP of the refrigerant		**2088**	kg $CO_{2\ ep}$ (100 years)				
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KR79C673H02