PRODUCT INFORMATION

PUHY-P＊＊＊YKB-A1.TH (-BS)

For Europe Regulation

PRODUCT INFORMATION(1)

Model(s): Information to identify the model(s) to which the information relates : Outdoor : PUHY-P200YKB-A1.TH (-BS) Indoor : PEFY-P50VMHS2-E×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	$\eta_{s,c}$	**283.4**	%
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	**4.71**	~~%~~
T_j = + 30 ºC	Pdc	**16.51**	kW	T_j = + 30 ºC	EER_d	**6.30**	~~%~~
T_j = + 25 ºC	Pdc	**10.62**	kW	T_j = + 25 ºC	EER_d	**9.32**	~~%~~
T_j = + 20 ºC	Pdc	**6.97**	kW	T_j = + 20 ºC	EER_d	**11.23**	~~%~~
Degradation co-efficient air conditioners**	C_d	**0.25**	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	**0.000**	kW	Crankcase heater mode	P_{CK}	**0.032**	kW
Thermostat-off mode	P_{TO}	**0.076**	kW	Standby mode	P_{SB}	**0.070**	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	**10500**	m^3/h
Sound power level, outdoor	L_{WA}	**78.0**	dB				
if engine driven: Emissions of nitrogen oxides	NO_x	-	mg/kWh fuel input GCV				
GWP of the refrigerant		**2088**	kg $CO_{2\,eq}$ (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.							

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

PRODUCT INFORMATION[(1)]

Information to identify the model(s) to which the information relates : Outdoor : PUHY-P200YKB-A1.TH (-BS) Indoor : PEFY-P50VMHS2-E×4 units							
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 optional.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	**25.00**	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	**161.8**	%
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	**22.02**	kW	T_j = - 7 ºC	COP_d	**2.76**	~~%~~
T_j = + 2 ºC	Pdh	**13.51**	kW	T_j = + 2 ºC	COP_d	**3.87**	~~%~~
T_j = + 7 ºC	Pdh	**7.69**	kW	T_j = + 7 ºC	COP_d	**5.57**	~~%~~
T_j = + 12 ºC	Pdh	**6.35**	kW	T_j = + 12 ºC	COP_d	**7.33**	~~%~~
T_j = bivalent temperature	Pdh	**22.79**	kW	T_j = bivalent temperature	COP_d	**2.75**	~~%~~
T_j = operation limit	Pdh	**16.71**	kW	T_j = operation limit	COP_d	**2.02**	~~%~~
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}	**-7.7**	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}	**0.000**	kW	Electric back-up heating capacity *	elbu	**0.000**	kW
Thermostat-off mode	P_{TO}	**0.076**	kW	Type of energy input			
Crankcase heater mode	P_{CK}	**0.032**	kW	Standby mode	P_{SB}	**0.070**	kW
Other items							
Capacity control	variable			For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	**10500**	m^3/h
Sound power level, indoor / outdoor measured	L_{WA}	**78.0**	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h
Emissions of nitrogen oxides (if applicable)	NO_x	-	mg/kWh				
GWP of the refrigerant		**2088**	kg $CO_{2\ eq}$ (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 of heat pumps shall be 0,25. 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.							

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

PRODUCT INFORMATION(1)

Model(s): Information to identify the model(s) to which the information relates : Outdoor: PUHY-P250YKB-A1.TH (-BS) Indoor: PEFY-P63VMHS2-E×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	$\eta_{s,c}$	**290.6**	%
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	**28.00**	kW	T_j = +35 ºC	EER_d	**4.68**	~~%~~
T_j = + 30 ºC	Pdc	**20.64**	kW	T_j = + 30 ºC	EER_d	**6.22**	~~%~~
T_j = + 25 ºC	Pdc	**13.28**	kW	T_j = + 25 ºC	EER_d	**9.24**	~~%~~
T_j = + 20 ºC	Pdc	**6.82**	kW	T_j = + 20 ºC	EER_d	**11.18**	~~%~~
Degradation co-efficient air conditioners**	C_d	**0.25**	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	**0.000**	kW	Crankcase heater mode	P_{CK}	**0.032**	kW
Thermostat-off mode	P_{TO}	**0.076**	kW	Standby mode	P_{SB}	**0.070**	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	**10500**	m^3/h
Sound power level, outdoor	L_{WA}	**79.0**	dB				
if engine driven: Emissions of nitrogen oxides	NO_x	-	mg/kWh fuel input GCV				
GWP of the refrigerant		**2088**	kg $CO_{2\ eq}$ (100 years)				
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** 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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PRODUCT INFORMATION(1)

Information to identify the model(s) to which the information relates :
Outdoor : PUHY-P250YKB-A1.TH (-BS) Indoor : PEFY-P63VMHS2-E×4 units

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 optional.

Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	**31.50**	kW
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = - 7 ºC	Pdh	**23.57**	kW
T_j = + 2 ºC	Pdh	**17.02**	kW
T_j = + 7 ºC	Pdh	**10.91**	kW
T_j = + 12 ºC	Pdh	**5.90**	kW
T_j = bivalent temperature	Pdh	**25.56**	kW
T_j = operation limit	Pdh	**16.76**	kW
For air-to-water heat pumps: T_j = - 15 ºC (if T_{OL} < - 20 ºC)	Pdh	**-**	kW
Bivalent temperature	T_{biv}	**-5.1**	ºC
Degradation co-efficient heat pumps**	C_{dh}	**0.25**	-
Power consumption in modes other than 'active mode'			
Off mode	P_{OFF}	**0.000**	kW
Thermostat-off mode	P_{TO}	**0.076**	kW
Crankcase heater mode	P_{CK}	**0.032**	kW
Other items			
Capacity control	variable		
Sound power level, indoor / outdoor measured	L_{WA}	**79.0**	dB
Emissions of nitrogen oxides (if applicable)	NO_x	-	mg/kWh
GWP of the refrigerant		**2088**	kg $CO_{2\ eq}$ (100 years)

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	**151.8**	%
Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j = - 7 ºC	COP_d	**2.70**	~~%~~
T_j = + 2 ºC	COP_d	**3.51**	~~%~~
T_j = + 7 ºC	COP_d	**5.51**	~~%~~
T_j = + 12 ºC	COP_d	**7.44**	~~%~~
T_j = bivalent temperature	COP_d	**2.92**	~~%~~
T_j = operation limit	COP_d	**1.91**	~~%~~
For water-to-air heat pumps: T_j = - 15 ºC (if T_{OL} < -20 ºC)	COP_d	-	~~%~~
For water-to-air heat pumps: Operation limit temperature	T_{ol}	-	ºC
Supplementary heater			
Electric back-up heating capacity *	elbu	**0.000**	kW
Type of energy input			
Standby mode	P_{SB}	**0.070**	kW
For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	**10500**	m³/h
For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h

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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 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.

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PRODUCT INFORMATION(1)

Model(s): Information to identify the model(s) to which the information relates : Outdoor : PUHY-P300YKB-A1.TH (-BS) Indoor : PEFY-P50VMHS2-E×6 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	$P_{rated,c}$	**33.50**	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	**275.0**	%
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	**33.50**	kW	T_j = +35 ºC	EER_d	**4.51**	~~%~~
T_j = + 30 ºC	Pdc	**24.70**	kW	T_j = + 30 ºC	EER_d	**5.61**	~~%~~
T_j = + 25 ºC	Pdc	**15.89**	kW	T_j = + 25 ºC	EER_d	**8.88**	~~%~~
T_j = + 20 ºC	Pdc	**10.42**	kW	T_j = + 20 ºC	EER_d	**10.54**	~~%~~
Degradation co-efficient air conditioners**	C_d	**0.25**	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	**0.000**	kW	Crankcase heater mode	P_{CK}	**0.036**	kW
Thermostat-off mode	P_{TO}	**0.076**	kW	Standby mode	P_{SB}	**0.070**	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	**12600**	m^3/h
Sound power level, outdoor	L_{WA}	**83.0**	dB				
if engine driven: Emissions of nitrogen oxides	NO_x	-	mg/kWh fuel input GCV				
GWP of the refrigerant		**2088**	kg $CO_{2\ eq}$ (100 years)				
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** 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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PRODUCT INFORMATION(1)

Information to identify the model(s) to which the information relates :
Outdoor : PUHY-P300YKB-A1.TH (-BS) Indoor : PEFY-P50VMHS2-E×6 units

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 optional.

Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	**37.50**	kW
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = - 7 ºC	Pdh	**33.01**	kW
T_j = + 2 ºC	Pdh	**20.26**	kW
T_j = + 7 ºC	Pdh	**12.99**	kW
T_j = + 12 ºC	Pdh	**9.46**	kW
T_j = bivalent temperature	Pdh	**33.61**	kW
T_j = operation limit	Pdh	**28.32**	kW
For air-to-water heat pumps: T_j = - 15 ºC (if T_{OL} < - 20 ºC)	Pdh	**-**	kW
Bivalent temperature	T_{biv}	**-7.3**	ºC
Degradation co-efficient heat pumps**	C_{dh}	**0.25**	-
Power consumption in modes other than 'active mode'			
Off mode	P_{OFF}	**0.000**	kW
Thermostat-off mode	P_{TO}	**0.076**	kW
Crankcase heater mode	P_{CK}	**0.036**	kW
Other items			
Capacity control	variable		
Sound power level, indoor / outdoor measured	L_{WA}	**83.0**	dB
Emissions of nitrogen oxides (if applicable)	NO_x	-	mg/kWh
GWP of the refrigerant		**2088**	kg $CO_{2\ eq}$ (100 years)

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	**155.0**	%
Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j = - 7 ºC	COP_d	**2.63**	~~%~~
T_j = + 2 ºC	COP_d	**3.69**	~~%~~
T_j = + 7 ºC	COP_d	**5.52**	~~%~~
T_j = + 12 ºC	COP_d	**6.58**	~~%~~
T_j = bivalent temperature	COP_d	**2.64**	~~%~~
T_j = operation limit	COP_d	**1.93**	~~%~~
For water-to-air heat pumps: T_j = - 15 ºC (if T_{OL} < -20 ºC)	COP_d	-	~~%~~
For water-to-air heat pumps: Operation limit temperature	T_{ol}	-	ºC
Supplementary heater			
Electric back-up heating capacity *	elbu	**0.000**	kW
Type of energy input			
Standby mode	P_{SB}	**0.070**	kW
For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	**12600**	m³/h
For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h

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 of heat pumps shall be 0,25.
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.

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PRODUCT INFORMATION(1)

Model(s): Information to identify the model(s) to which the information relates : Outdoor : PUHY-P350YKB-A1.TH (-BS) Indoor : PEFY-P63VMHS2-E×4 units, PEFY-P50VMHS2-E×2 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	$P_{rated,c}$	**40.00**	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	**263.8**	%
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	**40.00**	kW	T_j = +35 ºC	EER_d	**4.18**	~~%~~
T_j = + 30 ºC	Pdc	**29.49**	kW	T_j = + 30 ºC	EER_d	**5.29**	~~%~~
T_j = + 25 ºC	Pdc	**18.97**	kW	T_j = + 25 ºC	EER_d	**7.90**	~~%~~
T_j = + 20 ºC	Pdc	**12.44**	kW	T_j = + 20 ºC	EER_d	**11.23**	~~%~~
Degradation co-efficient air conditioners**	C_d	**0.25**	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	**0.000**	kW	Crankcase heater mode	P_{CK}	**0.036**	kW
Thermostat-off mode	P_{TO}	**0.076**	kW	Standby mode	P_{SB}	**0.070**	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	**12600**	m^3/h
Sound power level, outdoor	L_{WA}	**83.0**	dB				
if engine driven: Emissions of nitrogen oxides	NO_x	-	mg/kWh fuel input GCV				
GWP of the refrigerant		**2088**	kg $CO_{2\ eq}$ (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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PRODUCT INFORMATION(1)

Information to identify the model(s) to which the information relates :
Outdoor : PUHY-P350YKB-A1.TH (-BS)
Indoor : PEFY-P63VMHS2-E×4 units, PEFY-P50VMHS2-E×2 units

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 optional.

Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	**45.00**	kW
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = - 7 ºC	Pdh	**33.20**	kW
T_j = + 2 ºC	Pdh	**24.31**	kW
T_j = + 7 ºC	Pdh	**15.58**	kW
T_j = + 12 ºC	Pdh	**10.29**	kW
T_j = bivalent temperature	Pdh	**36.00**	kW
T_j = operation limit	Pdh	**28.02**	kW
For air-to-water heat pumps: T_j = - 15 ºC (if T_{OL} < - 20 ºC)	Pdh	-	kW
Bivalent temperature	T_{biv}	**-4.8**	ºC
Degradation co-efficient heat pumps**	C_{dh}	**0.25**	-
Power consumption in modes other than 'active mode'			
Off mode	P_{OFF}	**0.000**	kW
Thermostat-off mode	P_{TO}	**0.076**	kW
Crankcase heater mode	P_{CK}	**0.036**	kW
Other items			
Capacity control	variable		
Sound power level, indoor / outdoor measured	L_{WA}	**83.0**	dB
Emissions of nitrogen oxides (if applicable)	NO_x	-	mg/kWh
GWP of the refrigerant		**2088**	kg $CO_{2\ eq}$ (100 years)

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	**139.4**	%
Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j = - 7 ºC	COP_d	**2.45**	~~%~~
T_j = + 2 ºC	COP_d	**3.27**	~~%~~
T_j = + 7 ºC	COP_d	**5.05**	~~%~~
T_j = + 12 ºC	COP_d	**6.78**	~~%~~
T_j = bivalent temperature	COP_d	**2.64**	~~%~~
T_j = operation limit	COP_d	**1.92**	~~%~~
For water-to-air heat pumps: T_j = - 15 ºC (if T_{OL} < -20 ºC)	COP_d	-	~~%~~
For water-to-air heat pumps: Operation limit temperature	T_{ol}	-	ºC
Supplementary heater			
Electric back-up heating capacity *	elbu	**0.000**	kW
Type of energy input			
Standby mode	P_{SB}	**0.070**	kW
For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	**12600**	m³/h
For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h

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 of heat pumps shall be 0,25.
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.

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Model(s): Information to identify the model(s) to which the information relates :
Outdoor : PUHY-P400YKB-A1.TH (-BS)
Indoor : PEFY-P71VMHS2-E×5 units, PEFY-P50VMHS2-E×1 unit

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
Rated cooling capacity	$P_{rated,c}$	**45.00**	kW

Item	Symbol	Value	Unit
Seasonal space cooling energy efficiency	$\eta_{s,c}$	**249.0**	%

Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27ºC/19ºC (dry/wet bulb)

T_j = +35 ºC	Pdc	**45.00**	kW
T_j = + 30 ºC	Pdc	**33.18**	kW
T_j = + 25 ºC	Pdc	**21.34**	kW
T_j = + 20 ºC	Pdc	**9.55**	kW
Degradation co-efficient air conditioners**	C_d	**0.25**	-

Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures T_j

T_j = +35 ºC	EER_d	**3.54**	~~%~~
T_j = + 30 ºC	EER_d	**4.44**	~~%~~
T_j = + 25 ºC	EER_d	**7.61**	~~%~~
T_j = + 20 ºC	EER_d	**11.46**	~~%~~

Power consumption in modes other than 'active mode'

Off mode	P_{OFF}	**0.000**	kW
Thermostat-off mode	P_{TO}	**0.076**	kW
Crankcase heater mode	P_{CK}	**0.036**	kW
Standby mode	P_{SB}	**0.070**	kW

Other items

Capacity control	variable		
Sound power level, outdoor	L_{WA}	**83.0**	dB
if engine driven: Emissions of nitrogen oxides	NO_x	-	mg/kWh fuel input GCV
GWP of the refrigerant		**2088**	kg $CO_{2\ eq}$ (100 years)

For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	**12600**	m^3/h

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** 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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PRODUCT INFORMATION(1)

Information to identify the model(s) to which the information relates :
Outdoor : PUHY-P400YKB-A1.TH (-BS)
Indoor : PEFY-P71VMHS2-E×5 units, PEFY-P50VMHS2-E×1 unit

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 optional.

Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	**50.00**	kW
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = - 7 ºC	Pdh	**39.31**	kW
T_j = + 2 ºC	Pdh	**27.01**	kW
T_j = + 7 ºC	Pdh	**17.31**	kW
T_j = + 12 ºC	Pdh	**8.02**	kW
T_j = bivalent temperature	Pdh	**39.81**	kW
T_j = operation limit	Pdh	**33.26**	kW
For air-to-water heat pumps: T_j = - 15 ºC (if T_{OL} < - 20 ºC)	Pdh	-	kW
Bivalent temperature	T_{biv}	**-4.7**	ºC
Degradation co-efficient heat pumps**	C_{dh}	**0.25**	-
Power consumption in modes other than 'active mode'			
Off mode	P_{OFF}	**0.000**	kW
Thermostat-off mode	P_{TO}	**0.076**	kW
Crankcase heater mode	P_{CK}	**0.036**	kW
Other items			
Capacity control	variable		
Sound power level, indoor / outdoor measured	L_{WA}	**83.0**	dB
Emissions of nitrogen oxides (if applicable)	NO_x	-	mg/kWh
GWP of the refrigerant		**2088**	kg $CO_{2\ eq}$ (100 years)

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	**137.0**	%
Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j = - 7 ºC	COP_d	**2.56**	~~%~~
T_j = + 2 ºC	COP_d	**3.21**	~~%~~
T_j = + 7 ºC	COP_d	**4.85**	~~%~~
T_j = + 12 ºC	COP_d	**7.04**	~~%~~
T_j = bivalent temperature	COP_d	**2.51**	~~%~~
T_j = operation limit	COP_d	**2.01**	~~%~~
For water-to-air heat pumps: T_j = - 15 ºC (if T_{OL} < -20 ºC)	COP_d	-	~~%~~
For water-to-air heat pumps: Operation limit temperature	T_{ol}	-	ºC
Supplementary heater			
Electric back-up heating capacity *	elbu	**0.000**	kW
Type of energy input			
Standby mode	P_{SB}	**0.070**	kW
For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	**12600**	m³/h
For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h

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PRODUCT INFORMATION(1)

Model(s): Information to identify the model(s) to which the information relates : Outdoor : PUHY-P450YKB-A1.TH (-BS) Indoor : PEFY-P63VMHS2-E×4 units, PEFY-P50VMHS2-E×4 unit							
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	$P_{rated,c}$	**50.00**	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	**273.8**	%
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	**50.00**	kW	T_j = +35 ºC	EER_d	**3.97**	~~%~~
T_j = + 30 ºC	Pdc	**36.85**	kW	T_j = + 30 ºC	EER_d	**5.07**	~~%~~
T_j = + 25 ºC	Pdc	**23.70**	kW	T_j = + 25 ºC	EER_d	**8.16**	~~%~~
T_j = + 20 ºC	Pdc	**10.55**	kW	T_j = + 20 ºC	EER_d	**12.46**	~~%~~
Degradation co-efficient air conditioners**	C_d	**0.25**	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	**0.000**	kW	Crankcase heater mode	P_{CK}	**0.045**	kW
Thermostat-off mode	P_{TO}	**0.081**	kW	Standby mode	P_{SB}	**0.070**	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	**21600**	m^3/h
Sound power level, outdoor	L_{WA}	**85.0**	dB				
if engine driven: Emissions of nitrogen oxides	NO_x	-	mg/kWh fuel input GCV				
GWP of the refrigerant		**2088**	kg $CO_{2\ eq}$ (100 years)				
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** 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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PRODUCT INFORMATION(1)

Information to identify the model(s) to which the information relates :
Outdoor : PUHY-P450YKB-A1.TH (-BS)
Indoor : PEFY-P63VMHS2-E×4 units, PEFY-P50VMHS2-E×4 unit

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 optional.

Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	**56.00**	kW
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = - 7 ºC	Pdh	**42.35**	kW
T_j = + 2 ºC	Pdh	**30.26**	kW
T_j = + 7 ºC	Pdh	**19.38**	kW
T_j = + 12 ºC	Pdh	**8.62**	kW
T_j = bivalent temperature	Pdh	**44.80**	kW
T_j = operation limit	Pdh	**35.18**	kW
For air-to-water heat pumps: T_j = - 15 ºC (if T_{OL} < - 20 ºC)	Pdh	-	kW
Bivalent temperature	T_{biv}	**-4.8**	ºC
Degradation co-efficient heat pumps**	C_{dh}	**0.25**	-
Power consumption in modes other than 'active mode'			
Off mode	P_{OFF}	**0.000**	kW
Thermostat-off mode	P_{TO}	**0.081**	kW
Crankcase heater mode	P_{CK}	**0.045**	kW
Other items			
Capacity control	variable		
Sound power level, indoor / outdoor measured	L_{WA}	**85.0**	dB
Emissions of nitrogen oxides (if applicable)	NO_x	-	mg/kWh
GWP of the refrigerant		**2088**	kg $CO_{2\ eq}$ (100 years)

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	**139.0**	%
Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j = - 7 ºC	COP_d	**2.54**	~~%~~
T_j = + 2 ºC	COP_d	**3.20**	~~%~~
T_j = + 7 ºC	COP_d	**5.08**	~~%~~
T_j = + 12 ºC	COP_d	**7.99**	~~%~~
T_j = bivalent temperature	COP_d	**2.50**	~~%~~
T_j = operation limit	COP_d	**2.02**	~~%~~
For water-to-air heat pumps: T_j = - 15 ºC (if T_{OL} < -20 ºC)	COP_d	-	~~%~~
For water-to-air heat pumps: Operation limit temperature	T_{ol}	-	ºC
Supplementary heater			
Electric back-up heating capacity *	elbu	**0.000**	kW
Type of energy input			
Standby mode	P_{SB}	**0.070**	kW
For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	**21600**	m³/h
For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h

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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 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.

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PRODUCT INFORMATION(1)

Model(s): Information to identify the model(s) to which the information relates : Outdoor : PUHY-P500YKB-A1.TH (-BS) Indoor : PEFY-P63VMHS2-E×8 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	$P_{rated,c}$	**55.00**	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	**255.0**	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27º/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	**55.00**	kW	T_j = +35 ºC	EER_d	**3.60**	~~%~~
T_j = + 30 ºC	Pdc	**40.55**	kW	T_j = + 30 ºC	EER_d	**4.55**	~~%~~
T_j = + 25 ºC	Pdc	**26.09**	kW	T_j = + 25 ºC	EER_d	**7.70**	~~%~~
T_j = + 20 ºC	Pdc	**11.61**	kW	T_j = + 20 ºC	EER_d	**11.75**	~~%~~
Degradation co-efficient air conditioners**	C_d	**0.25**	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	**0.000**	kW	Crankcase heater mode	P_{CK}	**0.045**	kW
Thermostat-off mode	P_{TO}	**0.081**	kW	Standby mode	P_{SB}	**0.070**	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	**21600**	m^3/h
Sound power level, outdoor	L_{WA}	**86.0**	dB				
if engine driven: Emissions of nitrogen oxides	NO_x	**-**	mg/kWh fuel input GCV				
GWP of the refrigerant		**2088**	kg $CO_{2\ eq}$ (100 years)				
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PRODUCT INFORMATION(1)

Information to identify the model(s) to which the information relates :
Outdoor : PUHY-P500YKB-A1.TH (-BS) Indoor : PEFY-P63VMHS2-E×8 units

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 optional.

Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	**63.00**	kW
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = - 7 ºC	Pdh	**42.35**	kW
T_j = + 2 ºC	Pdh	**34.04**	kW
T_j = + 7 ºC	Pdh	**21.81**	kW
T_j = + 12 ºC	Pdh	**9.70**	kW
T_j = bivalent temperature	Pdh	**47.49**	kW
T_j = operation limit	Pdh	**35.18**	kW
For air-to-water heat pumps: T_j = - 15 ºC (if T_{OL} < - 20 ºC)	Pdh	-	kW
Bivalent temperature	T_{biv}	**-3.6**	ºC
Degradation co-efficient heat pumps**	C_{dh}	**0.25**	-
Power consumption in modes other than 'active mode'			
Off mode	P_{OFF}	**0.000**	kW
Thermostat-off mode	P_{TO}	**0.081**	kW
Crankcase heater mode	P_{CK}	**0.045**	kW
Other items			
Capacity control	variable		
Sound power level, indoor / outdoor measured	L_{WA}	**86.0**	dB
Emissions of nitrogen oxides (if applicable)	NO_x	-	mg/kWh
GWP of the refrigerant		**2088**	kg $CO_{2\ eq}$ (100 years)

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	**137.4**	%
Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j = - 7 ºC	COP_d	**2.64**	~~%~~
T_j = + 2 ºC	COP_d	**3.18**	~~%~~
T_j = + 7 ºC	COP_d	**5.06**	~~%~~
T_j = + 12 ºC	COP_d	**8.14**	~~%~~
T_j = bivalent temperature	COP_d	**2.66**	~~%~~
T_j = operation limit	COP_d	**2.11**	~~%~~
For water-to-air heat pumps: T_j = - 15 ºC (if T_{OL} < -20 ºC)	COP_d	-	~~%~~
For water-to-air heat pumps: Operation limit temperature	T_{ol}	-	ºC
Supplementary heater			
Electric back-up heating capacity *	elbu	**0.000**	kW
Type of energy input			
Standby mode	P_{SB}	**0.070**	kW
For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	**21600**	m³/h
For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h

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