PRODUCT INFORMATION

PUHY-P＊＊＊YNW-A1(-BS)

PUHY-EP＊＊＊YNW-A1(-BS)

For Europe Regulation

PRODUCT INFORMATION(1)

Model(s): Information to identify the model(s) to which the information relates:
Outdoor : PUHY-P200YNW-A1 (-BS) Indoor : PEFY-P50VMA3-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
Rated cooling capacity	$P_{rated,c}$	**22.40**	kW

Item	Symbol	Value	Unit
Seasonal space cooling energy efficiency	$\eta_{s,c}$	**297.0**	%

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

T_j = +35 °C	Pdc	**22.40**	kW
T_j = + 30 °C	Pdc	**16.51**	kW
T_j = + 25 °C	Pdc	**10.61**	kW
T_j = + 20 °C	Pdc	**7.36**	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 °C	EER_d	**4.65**	~~%~~
T_j = + 30 °C	EER_d	**6.03**	~~%~~
T_j = + 25 °C	EER_d	**9.47**	~~%~~
T_j = + 20 °C	EER_d	**13.45**	~~%~~

Power consumption in modes other than 'active mode'

Off mode	P_{OFF}	**0.069**	kW	Crankcase heater mode	P_{CK}	**0.029** kW
Thermostat-off mode	P_{TO}	**0.029**	kW	Standby mode	P_{SB}	**0.069** kW

Other items

Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	**10200**	m^3/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)				
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)

Model(s): Information to identify the model(s) to which the information relates:
Outdoor : PUHY-P200YNW-A1 (-BS) Indoor : PEFY-P50VMA3-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
Rated heating capacity	$P_{rated,h}$	**22.40**	kW
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = - 7 ºC	Pdh	**11.28**	kW
T_j = + 2 ºC	Pdh	**6.87**	kW
T_j = + 7 ºC	Pdh	**4.78**	kW
T_j = + 12 ºC	Pdh	**6.48**	kW
T_j = bivalent temperature	Pdh	**12.75**	kW
T_j = operation limit	Pdh	**13.10**	kW
For air-to-water heat pumps: T_j = - 15 ºC (if T_{OL} < - 20 ºC)	Pdh	**-**	kW
Bivalent temperature	T_{biv}	**-10.0**	ºC
Degradation co-efficient heat pumps**	C_{dh}	**0.25**	-
Power consumption in modes other than 'active mode'			
Off mode	P_{OFF}	**0.069**	kW
Thermostat-off mode	P_{TO}	**0.129**	kW
Crankcase heater mode	P_{CK}	**0.029**	kW
Other items			
Capacity control	variable		
Sound power level, indoor / outdoor measured	L_{WA}	**77**	dB
Emissions of nitrogen oxides (if applicable)	NO_x	**-**	mg/kWh
GWP of the refrigerant		**2088**	kg $CO_{2\ ep}$ (100 years)

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	**172.0**	%
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	**2.90**	~~%~~
T_j = + 2 ºC	COP_d	**4.10**	~~%~~
T_j = + 7 ºC	COP_d	**6.55**	~~%~~
T_j = + 12 ºC	COP_d	**7.28**	~~%~~
T_j = bivalent temperature	COP_d	**2.27**	~~%~~
T_j = operation limit	COP_d	**2.46**	~~%~~
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}	**0.146**	kW
For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	**10200**	m^3/h
For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/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 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)

Model(s): Information to identify the model(s) to which the information relates:
Outdoor : PUHY-P250YNW-A1 (-BS) Indoor : PEFY-P63VMA3-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	$\eta_{s,c}$	**277.0**	%
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	**3.92**	~~%~~
T_j = + 30 °C	Pdc	**20.63**	kW	T_j = + 30 °C	EER_d	**5.45**	~~%~~
T_j = + 25 °C	Pdc	**13.26**	kW	T_j = + 25 °C	EER_d	**8.45**	~~%~~
T_j = + 20 °C	Pdc	**7.36**	kW	T_j = + 20 °C	EER_d	**12.8**	~~%~~
Degradation co-efficient air	C_d	**0.25**	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	**0.069**	kW	Crankcase heater mode	P_{CK}	**0.029**	kW
Thermostat-off mode	P_{TO}	**0.029**	kW	Standby mode	P_{SB}	**0.069**	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	**11100**	m^3/h
Sound power level, outdoor	L_{WA}	**78**	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.

(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-P250YNW-A1（-BS） Indoor：PEFY-P63VMA3-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	$P_{rated,h}$	**28.00**	kW
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = - 7 ºC	Pdh	**14.18**	kW
T_j = + 2 ºC	Pdh	**8.65**	kW
T_j = + 7 ºC	Pdh	**5.56**	kW
T_j = + 12 ºC	Pdh	**6.75**	kW
T_j = bivalent temperature	Pdh	**16.03**	kW
T_j = operation limit	Pdh	**14.00**	kW
For air-to-water heat pumps: T_j = - 15 ºC (if T_{OL} < - 20 ºC)	Pdh	**-**	kW
Bivalent temperature	T_{biv}	**-10.0**	ºC
Degradation co-efficient heat pumps**	C_{dh}	**0.25**	-
Power consumption in modes other than 'active mode'			
Off mode	P_{OFF}	**0.069**	kW
Thermostat-off mode	P_{TO}	**0.129**	kW
Crankcase heater mode	P_{CK}	**0.029**	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	**165.0**	%
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	**2.92**	~~%~~
T_j = + 2 ºC	COP_d	**3.86**	~~%~~
T_j = + 7 ºC	COP_d	**6.08**	~~%~~
T_j = + 12 ºC	COP_d	**7.05**	~~%~~
T_j = bivalent temperature	COP_d	**2.17**	~~%~~
T_j = operation limit	COP_d	**2.20**	~~%~~
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}	**0.146**	kW

Other items							
Capacity control	variable			For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	**11100**	m³/h
Sound power level, indoor / outdoor measured	L_{WA}	**80**	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)				
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 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)

Model(s): Information to identify the model(s) to which the information relates:
Outdoor : PUHY-P300YNW-A1 (-BS) Indoor : PEFY-P50VMA3-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	$\eta_{s,c}$	**265.0**	%
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	**33.50**	kW	T_j = +35 °C	EER_d	**3.81**	~~%~~
T_j = + 30 °C	Pdc	**24.68**	kW	T_j = + 30 °C	EER_d	**4.74**	~~%~~
T_j = + 25 °C	Pdc	**15.87**	kW	T_j = + 25 °C	EER_d	**8.11**	~~%~~
T_j = + 20 °C	Pdc	**8.99**	kW	T_j = + 20 °C	EER_d	**13.00**	~~%~~
Degradation co-efficient air	C_d	**0.25**	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	**0.069**	kW	Crankcase heater mode	P_{CK}	**0.029**	kW
Thermostat-off mode	P_{TO}	**0.029**	kW	Standby mode	P_{SB}	**0.069**	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	**12000**	m^3/h
Sound power level, outdoor	L_{WA}	**80**	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.

(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-P300YNW-A1（-BS） Indoor：PEFY-P50VMA3-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	$P_{rated,h}$	**33.50**	kW
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = - 7 ºC	Pdh	**16.92**	kW
T_j = + 2 ºC	Pdh	**10.30**	kW
T_j = + 7 ºC	Pdh	**6.62**	kW
T_j = + 12 ºC	Pdh	**8.35**	kW
T_j = bivalent temperature	Pdh	**19.30**	kW
T_j = operation limit	Pdh	**17.00**	kW
For air-to-water heat pumps: T_j = - 15 ºC (if T_{OL} < - 20 ºC)	Pdh	**-**	kW
Bivalent temperature	T_{biv}	**-10.0**	ºC
Degradation co-efficient heat pumps**	C_{dh}	**0.25**	-
Power consumption in modes other than 'active mode'			
Off mode	P_{OFF}	**0.069**	kW
Thermostat-off mode	P_{TO}	**0.129**	kW
Crankcase heater mode	P_{CK}	**0.029**	kW
Other items			
Capacity control	variable		
Sound power level, indoor / outdoor measured	L_{WA}	**84**	dB
Emissions of nitrogen oxides (if applicable)	NO_x	**-**	mg/kWh
GWP of the refrigerant		**2088**	kg $CO_{2\ ep}$ (100 years)

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	**163.0**	%
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	**2.60**	~~%~~
T_j = + 2 ºC	COP_d	**3.68**	~~%~~
T_j = + 7 ºC	COP_d	**7.02**	~~%~~
T_j = + 12 ºC	COP_d	**7.40**	~~%~~
T_j = bivalent temperature	COP_d	**1.96**	~~%~~
T_j = operation limit	COP_d	**2.10**	~~%~~
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}	**0.146**	kW
For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	**14400**	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 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)

Model(s): Information to identify the model(s) to which the information relates: Outdoor：PUHY-P350YNW-A1（-BS） Indoor：PEFY-P63VMA3-E×4 units, PEFY-P50VMA3-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	$\eta_{s,c}$	**265.0**	%
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	**40.00**	kW	T_j = +35 ºC	EER_d	**3.65**	~~%~~
T_j = + 30 ºC	Pdc	**29.47**	kW	T_j = + 30 ºC	EER_d	**4.77**	~~%~~
T_j = + 25 ºC	Pdc	**18.95**	kW	T_j = + 25 ºC	EER_d	**8.20**	~~%~~
T_j = + 20 ºC	Pdc	**9.93**	kW	T_j = + 20 ºC	EER_d	**13.40**	~~%~~
Degradation co-efficient air	C_d	**0.25**	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	**0.095**	kW	Crankcase heater mode	P_{CK}	**0.039**	kW
Thermostat-off mode	P_{TO}	**0.039**	kW	Standby mode	P_{SB}	**0.095**	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	**15000**	m^3/h
Sound power level, outdoor	L_{WA}	**80**	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.							

(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-P350YNW-A1（-BS） Indoor：PEFY-P63VMA3-E×4 units, PEFY-P50VMA3-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	$P_{rated,h}$	**40.00**	kW
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = - 7 ºC	Pdh	**20.30**	kW
T_j = + 2 ºC	Pdh	**12.36**	kW
T_j = + 7 ºC	Pdh	**7.94**	kW
T_j = + 12 ºC	Pdh	**8.55**	kW
T_j = bivalent temperature	Pdh	**23.00**	kW
T_j = operation limit	Pdh	**16.60**	kW
For air-to-water heat pumps: T_j = - 15 ºC (if T_{OL} < - 20 ºC)	Pdh	**-**	kW
Bivalent temperature	T_{biv}	**-10.0**	ºC
Degradation co-efficient heat pumps**	C_{dh}	**0.25**	-
Power consumption in modes other than 'active mode'			
Off mode	P_{OFF}	**0.095**	kW
Thermostat-off mode	P_{TO}	**0.156**	kW
Crankcase heater mode	P_{CK}	**0.039**	kW
Other items			
Capacity control	variable		
Sound power level, indoor / outdoor measured	L_{WA}	**83**	dB
Emissions of nitrogen oxides (if applicable)	NO_x	**-**	mg/kWh
GWP of the refrigerant		**2088**	kg $CO_{2\ ep}$ (100 years)

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	**166.0**	%
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	**2.65**	~~%~~
T_j = + 2 ºC	COP_d	**3.85**	~~%~~
T_j = + 7 ºC	COP_d	**6.77**	~~%~~
T_j = + 12 ºC	COP_d	**7.42**	~~%~~
T_j = bivalent temperature	COP_d	**1.95**	~~%~~
T_j = operation limit	COP_d	**1.96**	~~%~~
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}	**0.173**	kW
For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	**16200**	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 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)

Model(s): Information to identify the model(s) to which the information relates: Outdoor : PUHY-P400YNW-A1 (-BS) Indoor : PEFY-P71VMA3-E×5 units, PEFY-P50VMA3-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	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	**45.00**	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	**252.0**	%
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	**45.00**	kW	T_j = +35 °C	EER_d	**3.17**	~~%~~
T_j = + 30 °C	Pdc	**33.16**	kW	T_j = + 30 °C	EER_d	**4.63**	~~%~~
T_j = + 25 °C	Pdc	**21.32**	kW	T_j = + 25 °C	EER_d	**7.33**	~~%~~
T_j = + 20 °C	Pdc	**11.70**	kW	T_j = + 20 °C	EER_d	**14.47**	~~%~~
Degradation co-efficient air	C_d	**0.25**	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	**0.095**	kW	Crankcase heater mode	P_{CK}	**0.039**	kW
Thermostat-off mode	P_{TO}	**0.039**	kW	Standby mode	P_{SB}	**0.095**	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	**16200**	m^3/h
Sound power level, outdoor	L_{WA}	**82**	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.							

(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-P400YNW-A1 (-BS)　Indoor : PEFY-P71VMA3-E×5 units, PEFY-P50VMA3-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	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	**45.00**	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	**162.0**	%
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	**22.56**	kW	T_j = - 7 ºC	COP_d	**2.67**	~~%~~
T_j = + 2 ºC	Pdh	**13.73**	kW	T_j = + 2 ºC	COP_d	**3.90**	~~%~~
T_j = + 7 ºC	Pdh	**8.83**	kW	T_j = + 7 ºC	COP_d	**5.88**	~~%~~
T_j = + 12 ºC	Pdh	**9.43**	kW	T_j = + 12 ºC	COP_d	**7.01**	~~%~~
T_j = bivalent temperature	Pdh	**25.50**	kW	T_j = bivalent temperature	COP_d	**2.01**	~~%~~
T_j = operation limit	Pdh	**21.70**	kW	T_j = operation limit	COP_d	**2.23**	~~%~~
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}	**0.095**	kW	Electric back-up heating capacity *	elbu	**0.000**	kW
Thermostat-off mode	P_{TO}	**0.156**	kW	Type of energy input			
Crankcase heater mode	P_{CK}	**0.039**	kW	Standby mode	P_{SB}	**0.173**	kW
Other items							
Capacity control	variable			For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	**18000**	m^3/h
Sound power level, indoor / outdoor measured	L_{WA}	**86**	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 $CO_{2\ ep}$ (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 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.

(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-P450YNW-A1(-BS) Indoor：PEFY-P63VMA3-E×4 units, PEFY-P50VMA3-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	$P_{rated,c}$	**50.00**	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	**50.00**	kW	T_j = +35 °C	EER_d	**3.43**	~~%~~
T_j = + 30 °C	Pdc	**36.84**	kW	T_j = + 30 °C	EER_d	**4.61**	~~%~~
T_j = + 25 °C	Pdc	**23.68**	kW	T_j = + 25 °C	EER_d	**7.10**	~~%~~
T_j = + 20 °C	Pdc	**11.90**	kW	T_j = + 20 °C	EER_d	**15.20**	~~%~~
Degradation co-efficient air	C_d	**0.25**	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	**0.095**	kW	Crankcase heater mode	P_{CK}	**0.039**	kW
Thermostat-off mode	P_{TO}	**0.039**	kW	Standby mode	P_{SB}	**0.095**	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	**17100**	m^3/h
Sound power level, outdoor	L_{WA}	**84**	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.							

(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-P450YNW-A1（-BS） Indoor：PEFY-P63VMA3-E×4 units, PEFY-P50VMA3-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	$P_{rated,h}$	**50.00**	kW
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = - 7 ºC	Pdh	**25.26**	kW
T_j = + 2 ºC	Pdh	**15.38**	kW
T_j = + 7 ºC	Pdh	**9.89**	kW
T_j = + 12 ºC	Pdh	**10.45**	kW
T_j = bivalent temperature	Pdh	**28.60**	kW
T_j = operation limit	Pdh	**24.60**	kW
For air-to-water heat pumps: T_j = - 15 ºC (if T_{OL} < - 20 ºC)	Pdh	**-**	kW
Bivalent temperature	T_{biv}	**-10.0**	ºC
Degradation co-efficient heat pumps**	C_{dh}	**0.25**	-
Power consumption in modes other than 'active mode'			
Off mode	P_{OFF}	**0.095**	kW
Thermostat-off mode	P_{TO}	**0.156**	kW
Crankcase heater mode	P_{CK}	**0.039**	kW
Other items			
Capacity control	variable		
Sound power level, indoor / outdoor measured	L_{WA}	**89**	dB
Emissions of nitrogen oxides (if applicable)	NO_x	**-**	mg/kWh
GWP of the refrigerant		**2088**	kg $CO_{2\ ep}$ (100 years)

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	**157.0**	%
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	**2.40**	~~%~~
T_j = + 2 ºC	COP_d	**3.51**	~~%~~
T_j = + 7 ºC	COP_d	**6.77**	~~%~~
T_j = + 12 ºC	COP_d	**8.20**	~~%~~
T_j = bivalent temperature	COP_d	**1.96**	~~%~~
T_j = operation limit	COP_d	**2.08**	~~%~~
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}	**0.173**	kW
For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	**18300**	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 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)

Model(s): Information to identify the model(s) to which the information relates: Outdoor : PUHY-P500YNW-A1 (-BS) Indoor : PEFY-P63VMA3-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	$P_{rated,c}$	**56.00**	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	**249.0**	%
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	**56.00**	kW	T_j = +35 °C	EER_d	**3.19**	~~%~~
T_j = + 30 °C	Pdc	**41.26**	kW	T_j = + 30 °C	EER_d	**4.59**	~~%~~
T_j = + 25 °C	Pdc	**26.53**	kW	T_j = + 25 °C	EER_d	**7.20**	~~%~~
T_j = + 20 °C	Pdc	**12.30**	kW	T_j = + 20 °C	EER_d	**12.85**	~~%~~
Degradation co-efficient air	C_d	**0.25**	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	**0.095**	kW	Crankcase heater mode	P_{CK}	**0.039**	kW
Thermostat-off mode	P_{TO}	**0.039**	kW	Standby mode	P_{SB}	**0.095**	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	**18900**	m^3/h
Sound power level, outdoor	L_{WA}	**82**	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.							

(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-P500YNW-A1（-BS） Indoor：PEFY-P63VMA3-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	$P_{rated,h}$	**56.00**	kW
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = - 7 ºC	Pdh	**28.42**	kW
T_j = + 2 ºC	Pdh	**17.30**	kW
T_j = + 7 ºC	Pdh	**11.12**	kW
T_j = + 12 ºC	Pdh	**13.07**	kW
T_j = bivalent temperature	Pdh	**32.20**	kW
T_j = operation limit	Pdh	**29.60**	kW
For air-to-water heat pumps: T_j = - 15 ºC (if T_{OL} < - 20 ºC)	Pdh	**-**	kW
Bivalent temperature	T_{biv}	**-10.0**	ºC
Degradation co-efficient heat pumps**	C_{dh}	**0.25**	-
Power consumption in modes other than 'active mode'			
Off mode	P_{OFF}	**0.095**	kW
Thermostat-off mode	P_{TO}	**0.164**	kW
Crankcase heater mode	P_{CK}	**0.039**	kW
Other items			
Capacity control	variable		
Sound power level, indoor / outdoor measured	L_{WA}	**85**	dB
Emissions of nitrogen oxides (if applicable)	NO_x	**-**	mg/kWh
GWP of the refrigerant		**2088**	kg $CO_{2\ ep}$ (100 years)

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	**153.0**	%
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	**2.61**	~~%~~
T_j = + 2 ºC	COP_d	**3.33**	~~%~~
T_j = + 7 ºC	COP_d	**6.47**	~~%~~
T_j = + 12 ºC	COP_d	**7.82**	~~%~~
T_j = bivalent temperature	COP_d	**2.01**	~~%~~
T_j = operation limit	COP_d	**2.24**	~~%~~
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}	**0.173**	kW
For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	**21900**	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 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)

Model(s): Information to identify the model(s) to which the information relates: Outdoor : PUHY-EP200YNW-A1 (-BS) Indoor : PEFY-P50VMA3-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	$\eta_{s,c}$	**307.0**	%
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	**22.40**	kW	T_j = +35 °C	EER_d	**5.01**	~~%~~
T_j = + 30 °C	Pdc	**16.51**	kW	T_j = + 30 °C	EER_d	**6.52**	~~%~~
T_j = + 25 °C	Pdc	**10.61**	kW	T_j = + 25 °C	EER_d	**9.60**	~~%~~
T_j = + 20 °C	Pdc	**7.22**	kW	T_j = + 20 °C	EER_d	**13.50**	~~%~~
Degradation co-efficient air	C_d	**0.25**	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	**0.069**	kW	Crankcase heater mode	P_{CK}	**0.029**	kW
Thermostat-off mode	P_{TO}	**0.029**	kW	Standby mode	P_{SB}	**0.069**	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	**10200**	m^3/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)				
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)

Model(s): Information to identify the model(s) to which the information relates:
Outdoor : PUHY-EP200YNW-A1 (-BS) Indoor : PEFY-P50VMA3-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	$P_{rated,h}$	**22.40**	kW
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = - 7 ºC	Pdh	**11.28**	kW
T_j = + 2 ºC	Pdh	**6.87**	kW
T_j = + 7 ºC	Pdh	**4.78**	kW
T_j = + 12 ºC	Pdh	**6.47**	kW
T_j = bivalent temperature	Pdh	**12.75**	kW
T_j = operation limit	Pdh	**13.10**	kW
For air-to-water heat pumps: T_j = - 15 ºC (if T_{OL} < - 20 ºC)	Pdh	**-**	kW
Bivalent temperature	T_{biv}	**-10.0**	ºC
Degradation co-efficient heat pumps**	C_{dh}	**0.25**	-
Power consumption in modes other than 'active mode'			
Off mode	P_{OFF}	**0.069**	kW
Thermostat-off mode	P_{TO}	**0.129**	kW
Crankcase heater mode	P_{CK}	**0.029**	kW
Other items			
Capacity control	variable		
Sound power level, indoor / outdoor measured	L_{WA}	**78**	dB
Emissions of nitrogen oxides (if applicable)	NO_x	**-**	mg/kWh
GWP of the refrigerant		**2088**	kg $CO_{2\ ep}$ (100 years)

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	**175.0**	%
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	**2.92**	~~%~~
T_j = + 2 ºC	COP_d	**4.11**	~~%~~
T_j = + 7 ºC	COP_d	**6.65**	~~%~~
T_j = + 12 ºC	COP_d	**8.11**	~~%~~
T_j = bivalent temperature	COP_d	**2.38**	~~%~~
T_j = operation limit	COP_d	**2.16**	~~%~~
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}	**0.146**	kW

For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	**10200**	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 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)

Model(s): Information to identify the model(s) to which the information relates: Outdoor : PUHY-EP250YNW-A1 (-BS) Indoor : PEFY-P63VMA3-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	$\eta_{s,c}$	**297.0**	%
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	**4.27**	~~%~~
T_j = + 30 °C	Pdc	**20.63**	kW	T_j = + 30 °C	EER_d	**6.03**	~~%~~
T_j = + 25 °C	Pdc	**13.26**	kW	T_j = + 25 °C	EER_d	**9.00**	~~%~~
T_j = + 20 °C	Pdc	**7.22**	kW	T_j = + 20 °C	EER_d	**13.50**	~~%~~
Degradation co-efficient air	C_d	**0.25**	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	**0.069**	kW	Crankcase heater mode	P_{CK}	**0.029**	kW
Thermostat-off mode	P_{TO}	**0.029**	kW	Standby mode	P_{SB}	**0.069**	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	**11100**	m^3/h
Sound power level, outdoor	L_{WA}	**78**	dB				
if engine driven: Emissions of nitrogen oxides	NO_x	-	mg/kWh fuel input GCV				
Emissions of nitrogen oxides (if applicable)	NO_x	-	mg/kWh				
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.							

(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-EP250YNW-A1 (-BS) Indoor : PEFY-P63VMA3-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	$P_{rated,h}$	**28.00**	kW
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = - 7 ºC	Pdh	**14.21**	kW
T_j = + 2 ºC	Pdh	**8.65**	kW
T_j = + 7 ºC	Pdh	**5.56**	kW
T_j = + 12 ºC	Pdh	**6.36**	kW
T_j = bivalent temperature	Pdh	**16.03**	kW
T_j = operation limit	Pdh	**14.00**	kW
For air-to-water heat pumps: T_j = - 15 ºC (if T_{OL} < - 20 ºC)	Pdh	**-**	kW
Bivalent temperature	T_{biv}	**-10.0**	ºC
Degradation co-efficient heat pumps**	C_{dh}	**0.25**	-
Power consumption in modes other than 'active mode'			
Off mode	P_{OFF}	**0.069**	kW
Thermostat-off mode	P_{TO}	**0.129**	kW
Crankcase heater mode	P_{CK}	**0.029**	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	**169.0**	%
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	**2.93**	~~%~~
T_j = + 2 ºC	COP_d	**3.96**	~~%~~
T_j = + 7 ºC	COP_d	**6.30**	~~%~~
T_j = + 12 ºC	COP_d	**7.23**	~~%~~
T_j = bivalent temperature	COP_d	**2.18**	~~%~~
T_j = operation limit	COP_d	**2.12**	~~%~~
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}	**0.146**	kW

Other items							
Capacity control	variable			For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	**11100**	m³/h
Sound power level, indoor / outdoor measured	L_{WA}	**80**	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)				
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 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)

Model(s): Information to identify the model(s) to which the information relates: Outdoor : PUHY-EP300YNW-A1 (-BS) Indoor : PEFY-P50VMA3-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	$\eta_{s,c}$	**287.0**	%
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	**33.50**	kW	T_j = +35 °C	EER_d	**4.33**	~~%~~
T_j = + 30 °C	Pdc	**24.68**	kW	T_j = + 30 °C	EER_d	**5.65**	~~%~~
T_j = + 25 °C	Pdc	**15.87**	kW	T_j = + 25 °C	EER_d	**8.50**	~~%~~
T_j = + 20 °C	Pdc	**9.24**	kW	T_j = + 20 °C	EER_d	**13.00**	~~%~~
Degradation co-efficient air	C_d	**0.25**	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	**0.069**	kW	Crankcase heater mode	P_{CK}	**0.029**	kW
Thermostat-off mode	P_{TO}	**0.029**	kW	Standby mode	P_{SB}	**0.069**	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	**12000**	m^3/h
Sound power level, outdoor	L_{WA}	**80**	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.							

(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-EP300YNW-A1 (-BS) Indoor : PEFY-P50VMA3-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	$P_{rated,h}$	**33.50**	kW
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = - 7 ºC	Pdh	**16.92**	kW
T_j = + 2 ºC	Pdh	**10.30**	kW
T_j = + 7 ºC	Pdh	**6.62**	kW
T_j = + 12 ºC	Pdh	**8.58**	kW
T_j = bivalent temperature	Pdh	**19.30**	kW
T_j = operation limit	Pdh	**17.00**	kW
For air-to-water heat pumps: T_j = - 15 ºC (if T_{OL} < - 20 ºC)	Pdh	**-**	kW
Bivalent temperature	T_{biv}	**-10.0**	ºC
Degradation co-efficient heat pumps**	C_{dh}	**0.25**	-
Power consumption in modes other than 'active mode'			
Off mode	P_{OFF}	**0.069**	kW
Thermostat-off mode	P_{TO}	**0.129**	kW
Crankcase heater mode	P_{CK}	**0.029**	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	**165.0**	%
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	**2.61**	~~%~~
T_j = + 2 ºC	COP_d	**3.68**	~~%~~
T_j = + 7 ºC	COP_d	**7.45**	~~%~~
T_j = + 12 ºC	COP_d	**7.45**	~~%~~
T_j = bivalent temperature	COP_d	**1.97**	~~%~~
T_j = operation limit	COP_d	**1.78**	~~%~~
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}	**0.146**	kW

Other items							
Capacity control	variable			For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	**14400**	m³/h
Sound power level, indoor / outdoor measured	L_{WA}	**84**	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)				
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 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)

Model(s): Information to identify the model(s) to which the information relates: Outdoor：PUHY-EP350YNW-A1（-BS） Indoor：PEFY-P63VMA3-E×4 units, PEFY-P50VMA3-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	$\eta_{s,c}$	**278.0**	%
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	**40.00**	kW	T_j = +35 ºC	EER_d	**4.01**	~~%~~
T_j = + 30 ºC	Pdc	**29.47**	kW	T_j = + 30 ºC	EER_d	**5.28**	~~%~~
T_j = + 25 ºC	Pdc	**18.95**	kW	T_j = + 25 ºC	EER_d	**8.35**	~~%~~
T_j = + 20 ºC	Pdc	**9.97**	kW	T_j = + 20 ºC	EER_d	**13.50**	~~%~~
Degradation co-efficient air	C_d	**0.25**	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	**0.095**	kW	Crankcase heater mode	P_{CK}	**0.039**	kW
Thermostat-off mode	P_{TO}	**0.039**	kW	Standby mode	P_{SB}	**0.095**	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	**15000**	m^3/h
Sound power level, outdoor	L_{WA}	**80**	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.							

(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-EP350YNW-A1(-BS) Indoor : PEFY-P63VMA3-E×4 units, PEFY-P50VMA3-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	$P_{rated,h}$	**40.00**	kW
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = - 7 ºC	Pdh	**20.30**	kW
T_j = + 2 ºC	Pdh	**12.36**	kW
T_j = + 7 ºC	Pdh	**7.94**	kW
T_j = + 12 ºC	Pdh	**8.61**	kW
T_j = bivalent temperature	Pdh	**23.00**	kW
T_j = operation limit	Pdh	**16.60**	kW
For air-to-water heat pumps: T_j = - 15 ºC (if T_{OL} < - 20 ºC)	Pdh	**-**	kW
Bivalent temperature	T_{biv}	**-10.0**	ºC
Degradation co-efficient heat pumps**	C_{dh}	**0.25**	-
Power consumption in modes other than 'active mode'			
Off mode	P_{OFF}	**0.095**	kW
Thermostat-off mode	P_{TO}	**0.156**	kW
Crankcase heater mode	P_{CK}	**0.039**	kW
Other items			
Capacity control	variable		
Sound power level, indoor / outdoor measured	L_{WA}	**83**	dB
Emissions of nitrogen oxides (if applicable)	NO_x	**-**	mg/kWh
GWP of the refrigerant		**2088**	kg $CO_{2\ ep}$ (100 years)

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	**173.0**	%
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	**2.70**	~~%~~
T_j = + 2 ºC	COP_d	**3.99**	~~%~~
T_j = + 7 ºC	COP_d	**7.02**	~~%~~
T_j = + 12 ºC	COP_d	**8.30**	~~%~~
T_j = bivalent temperature	COP_d	**2.02**	~~%~~
T_j = operation limit	COP_d	**1.72**	~~%~~
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}	**0.173**	kW
For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	**16200**	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 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)

Model(s): Information to identify the model(s) to which the information relates: Outdoor : PUHY-EP400YNW-A1 (-BS) Indoor : PEFY-P71VMA3-E×5 units, PEFY-P50VMA3-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	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	**45.00**	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	**277.0**	%
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	**45.00**	kW	T_j = +35 ºC	EER_d	**3.63**	~~%~~
T_j = + 30 ºC	Pdc	**33.16**	kW	T_j = + 30 ºC	EER_d	**5.25**	~~%~~
T_j = + 25 ºC	Pdc	**21.32**	kW	T_j = + 25 ºC	EER_d	**8.20**	~~%~~
T_j = + 20 ºC	Pdc	**12.08**	kW	T_j = + 20 ºC	EER_d	**14.60**	~~%~~
Degradation co-efficient air	C_d	**0.25**	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	**0.095**	kW	Crankcase heater mode	P_{CK}	**0.039**	kW
Thermostat-off mode	P_{TO}	**0.039**	kW	Standby mode	P_{SB}	**0.095**	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	**16200**	m^3/h
Sound power level, outdoor	L_{WA}	**82**	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.							

(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-EP400YNW-A1（-BS） Indoor：PEFY-P71VMA3-E×5 units, PEFY-P50VMA3-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	$P_{rated,h}$	**45.00**	kW
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = - 7 ºC	Pdh	**22.56**	kW
T_j = + 2 ºC	Pdh	**13.73**	kW
T_j = + 7 ºC	Pdh	**8.83**	kW
T_j = + 12 ºC	Pdh	**10.15**	kW
T_j = bivalent temperature	Pdh	**25.50**	kW
T_j = operation limit	Pdh	**21.70**	kW
For air-to-water heat pumps: T_j = - 15 ºC (if T_{OL} < - 20 ºC)	Pdh	**-**	kW
Bivalent temperature	T_{biv}	**-10.0**	ºC
Degradation co-efficient heat pumps**	C_{dh}	**0.25**	-
Power consumption in modes other than 'active mode'			
Off mode	P_{OFF}	**0.095**	kW
Thermostat-off mode	P_{TO}	**0.156**	kW
Crankcase heater mode	P_{CK}	**0.039**	kW
Other items			
Capacity control	variable		
Sound power level, indoor / outdoor measured	L_{WA}	**84**	dB
Emissions of nitrogen oxides (if applicable)	NO_x	**-**	mg/kWh
GWP of the refrigerant		**2088**	kg $CO_{2\ ep}$ (100 years)

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	**168.0**	%
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	**2.72**	~~%~~
T_j = + 2 ºC	COP_d	**3.89**	~~%~~
T_j = + 7 ºC	COP_d	**6.72**	~~%~~
T_j = + 12 ºC	COP_d	**7.36**	~~%~~
T_j = bivalent temperature	COP_d	**2.06**	~~%~~
T_j = operation limit	COP_d	**2.21**	~~%~~
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}	**0.173**	kW

For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	**16200**	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 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)

Model(s): Information to identify the model(s) to which the information relates: Outdoor : PUHY-EP450YNW-A1 (-BS) Indoor : PEFY-P63VMA3-E×4 units, PEFY-P50VMA3-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	$P_{rated,c}$	**50.00**	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	**279.0**	%
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	**50.00**	kW	T_j = +35 °C	EER_d	**3.61**	~~%~~
T_j = + 30 °C	Pdc	**36.84**	kW	T_j = + 30 °C	EER_d	**5.19**	~~%~~
T_j = + 25 °C	Pdc	**23.68**	kW	T_j = + 25 °C	EER_d	**7.82**	~~%~~
T_j = + 20 °C	Pdc	**12.09**	kW	T_j = + 20 °C	EER_d	**16.28**	~~%~~
Degradation co-efficient air	C_d	**0.25**	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	**0.095**	kW	Crankcase heater mode	P_{CK}	**0.039**	kW
Thermostat-off mode	P_{TO}	**0.039**	kW	Standby mode	P_{SB}	**0.095**	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	**17100**	m^3/h
Sound power level, outdoor	L_{WA}	**84**	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.							

(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-EP450YNW-A1(-BS) Indoor : PEFY-P63VMA3-E×4 units, PEFY-P50VMA3-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	$P_{rated,h}$	**50.00**	kW
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = - 7 ºC	Pdh	**25.26**	kW
T_j = + 2 ºC	Pdh	**15.38**	kW
T_j = + 7 ºC	Pdh	**9.89**	kW
T_j = + 12 ºC	Pdh	**10.53**	kW
T_j = bivalent temperature	Pdh	**28.60**	kW
T_j = operation limit	Pdh	**24.60**	kW
For air-to-water heat pumps: T_j = - 15 ºC (if T_{OL} < - 20 ºC)	Pdh	**-**	kW
Bivalent temperature	T_{biv}	**-10.0**	ºC
Degradation co-efficient heat pumps**	C_{dh}	**0.25**	-
Power consumption in modes other than 'active mode'			
Off mode	P_{OFF}	**0.095**	kW
Thermostat-off mode	P_{TO}	**0.156**	kW
Crankcase heater mode	P_{CK}	**0.039**	kW
Other items			
Capacity control	variable		
Sound power level, indoor / outdoor measured	L_{WA}	**88**	dB
Emissions of nitrogen oxides (if applicable)	NO_x	**-**	mg/kWh
GWP of the refrigerant		**2088**	kg $CO_{2\ ep}$ (100 years)

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	**163.0**	%
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	**2.61**	~~%~~
T_j = + 2 ºC	COP_d	**3.67**	~~%~~
T_j = + 7 ºC	COP_d	**6.80**	~~%~~
T_j = + 12 ºC	COP_d	**8.44**	~~%~~
T_j = bivalent temperature	COP_d	**1.97**	~~%~~
T_j = operation limit	COP_d	**2.13**	~~%~~
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}	**0.173**	kW
For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	**18300**	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 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)

Model(s): Information to identify the model(s) to which the information relates: Outdoor : PUHY-EP500YNW-A1 (-BS) Indoor : PEFY-P63VMA3-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	$P_{rated,c}$	**56.00**	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	**259.0**	%
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	**56.00**	kW	T_j = +35 °C	EER_d	**3.38**	~~%~~
T_j = + 30 °C	Pdc	**41.26**	kW	T_j = + 30 °C	EER_d	**4.77**	~~%~~
T_j = + 25 °C	Pdc	**26.53**	kW	T_j = + 25 °C	EER_d	**7.48**	~~%~~
T_j = + 20 °C	Pdc	**13.22**	kW	T_j = + 20 °C	EER_d	**13.32**	~~%~~
Degradation co-efficient air	C_d	**0.25**	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	**0.095**	kW	Crankcase heater mode	P_{CK}	**0.039**	kW
Thermostat-off mode	P_{TO}	**0.039**	kW	Standby mode	P_{SB}	**0.095**	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	**18900**	m^3/h
Sound power level, outdoor	L_{WA}	**82**	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.							

(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-EP500YNW-A1 (-BS) Indoor : PEFY-P63VMA3-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	$P_{rated,h}$	**56.00**	kW
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = - 7 ºC	Pdh	**28.42**	kW
T_j = + 2 ºC	Pdh	**17.30**	kW
T_j = + 7 ºC	Pdh	**11.12**	kW
T_j = + 12 ºC	Pdh	**12.53**	kW
T_j = bivalent temperature	Pdh	**32.20**	kW
T_j = operation limit	Pdh	**29.60**	kW
For air-to-water heat pumps: T_j = - 15 ºC (if T_{OL} < - 20 ºC)	Pdh	**-**	kW
Bivalent temperature	T_{biv}	**-10.0**	ºC
Degradation co-efficient heat pumps**	C_{dh}	**0.25**	-
Power consumption in modes other than 'active mode'			
Off mode	P_{OFF}	**0.095**	kW
Thermostat-off mode	P_{TO}	**0.164**	kW
Crankcase heater mode	P_{CK}	**0.039**	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	**157.0**	%
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	**2.61**	~~%~~
T_j = + 2 ºC	COP_d	**3.42**	~~%~~
T_j = + 7 ºC	COP_d	**6.84**	~~%~~
T_j = + 12 ºC	COP_d	**8.10**	~~%~~
T_j = bivalent temperature	COP_d	**2.02**	~~%~~
T_j = operation limit	COP_d	**2.31**	~~%~~
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}	**0.173**	kW

Other items

Capacity control	variable			For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	**21900**	m³/h
Sound power level, indoor / outdoor measured	L_{WA}	**85**	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)				
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 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

KR79C621H01