

PRODUCT INFORMATION
PUHY-M * * * YXM-A(-BS)
PUHY-EM * * * YXM-A/TR(-BS)
For Europe Regulation

PRODUCT INFORMATION(1)

Model(s): Information to identify the model(s) to which the information relates: Outdoor : PUHY-M200YXM-A (-BS) Indoor : PEFY-MS50VMA-A1×4 units							
Outdoor heat exchanger of air conditioner: air							
Indoor heat exchanger of air conditioner: air							
Type: compressor driven vapour compression							
if applicable: driver of compressor: electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	22.40	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	305.8	%
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			
$T_j = +35\text{ °C}$	P_{dc}	22.40	kW	$T_j = +35\text{ °C}$	EER_d	4.09	%
$T_j = +30\text{ °C}$	P_{dc}	16.51	kW	$T_j = +30\text{ °C}$	EER_d	6.24	%
$T_j = +25\text{ °C}$	P_{dc}	12.21	kW	$T_j = +25\text{ °C}$	EER_d	10.08	%
$T_j = +20\text{ °C}$	P_{dc}	12.70	kW	$T_j = +20\text{ °C}$	EER_d	13.83	%
Degradation co-efficient air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'				Crankcase heater mode			
Off mode	P_{OFF}	0.048	kW	Standby mode	P_{SB}	0.048	kW
Thermostat-off mode	P_{TO}	0.018	kW				
Other items				For air-to-air air conditioner: Nominal air flow rate, outdoor measured			
Capacity control	variable				-	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		675	kg CO ₂ eq (100 years)				
Contact details	MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 MOO 7, TAMBON DON HUA ROH, AMPHUR MUANG, CHONBURI 20000, THAILAND						
** If C_{dc} 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-M200YXM-A(-BS) Indoor : PEFY-MS50VMA-A1×4 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	$P_{rated,h}$	22.40	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	187.0	%
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			
$T_j = -7\text{ °C}$	P_{dh}	10.11	kW	$T_j = -7\text{ °C}$	COP_d	2.82	%
$T_j = +2\text{ °C}$	P_{dh}	6.40	kW	$T_j = +2\text{ °C}$	COP_d	5.16	%
$T_j = +7\text{ °C}$	P_{dh}	7.44	kW	$T_j = +7\text{ °C}$	COP_d	6.45	%
$T_j = +12\text{ °C}$	P_{dh}	8.87	kW	$T_j = +12\text{ °C}$	COP_d	7.83	%
$T_j = \text{bivalent temperature}$	P_{dh}	11.43	kW	$T_j = \text{bivalent temperature}$	COP_d	2.10	%
$T_j = \text{operation limit}$	P_{dh}	11.43	kW	$T_j = \text{operation limit}$	COP_d	2.10	%
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if P_{dh} $T_{OL} < -20\text{ °C}$)		-	kW	For water-to-air heat pumps: $T_j = -15\text{ °C}$ (if $T_{OL} < -20\text{ °C}$)	COP_d	-	%
Bivalent temperature	T_{biv}	-10.0	°C	For water-to-air heat pumps: Operation limit temperature	T_{ol}	-	°C
Degradation co-efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.048	kW	Electric back-up heating capacity *	$elbu$	0.000	kW
Thermostat-off mode	P_{TO}	0.110	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.018	kW	Standby mode	P_{SB}	0.125	kW
Other items							
Capacity control	variable			For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	10200	m ³ /h
Sound power level, indoor / outdoor measured	L_{WA}	78	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 fuel input GCV				
GWP of the refrigerant		675	kg CO ₂ eq (100 years)				
Contact details	MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 MOO 7, TAMBON DON HUA ROH, AMPHUR MUANG, CHONBURI 20000, THAILAND						
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PRODUCT INFORMATION(1)

Model(s): Information to identify the model(s) to which the information relates: <div style="text-align: center;">Outdoor : PUHY-M250YXM-A(-BS) Indoor : PEFY-MS63VMA-A1×4 units</div>							
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	$\eta_{s,c}$	293.0	%
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			
$T_j = +35\text{ °C}$	P_{dc}	28.00	kW	$T_j = +35\text{ °C}$	EER_d	3.64	%
$T_j = +30\text{ °C}$	P_{dc}	20.63	kW	$T_j = +30\text{ °C}$	EER_d	5.40	%
$T_j = +25\text{ °C}$	P_{dc}	13.26	kW	$T_j = +25\text{ °C}$	EER_d	9.46	%
$T_j = +20\text{ °C}$	P_{dc}	12.53	kW	$T_j = +20\text{ °C}$	EER_d	14.18	%
Degradation co-efficient air conditioners**							
	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.048	kW	Crankcase heater mode	P_{CK}	0.018	kW
Thermostat-off mode	P_{TO}	0.018	kW	Standby mode	P_{SB}	0.048	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}	78	dB				
if engine driven: Emissions of nitrogen oxides	NO_x	-	mg/kWh fuel input GCV				
GWP of the refrigerant		675	kg CO ₂ eq (100 years)				
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Model(s): Information to identify the model(s) to which the information relates: Outdoor : PUHY-M250YXM-A(-BS) Indoor : PEFY-MS63VMA-A1×4 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	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	28.00	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	187.0	%
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			
$T_j = -7\text{ °C}$	P_{dh}	12.63	kW	$T_j = -7\text{ °C}$	COP_d	2.72	%
$T_j = +2\text{ °C}$	P_{dh}	7.69	kW	$T_j = +2\text{ °C}$	COP_d	5.03	%
$T_j = +7\text{ °C}$	P_{dh}	7.39	kW	$T_j = +7\text{ °C}$	COP_d	6.52	%
$T_j = +12\text{ °C}$	P_{dh}	8.92	kW	$T_j = +12\text{ °C}$	COP_d	7.99	%
$T_j = \text{bivalent temperature}$	P_{dh}	14.28	kW	$T_j = \text{bivalent temperature}$	COP_d	1.98	%
$T_j = \text{operation limit}$	P_{dh}	14.28	kW	$T_j = \text{operation limit}$	COP_d	1.98	%
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if P_{dh} $T_{OL} < -20\text{ °C}$)		-	kW	For water-to-air heat pumps: $T_j = -15\text{ °C}$ (if $T_{OL} < -20\text{ °C}$)	COP_d	-	%
Bivalent temperature	T_{biv}	-10.0	°C	For water-to-air heat pumps: Operation limit temperature	T_{ol}	-	°C
Degradation co-efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.048	kW	Electric back-up heating capacity *	e_{lbu}	0.000	kW
Thermostat-off mode	P_{TO}	0.110	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.018	kW	Standby mode	P_{SB}	0.125	kW
Other items							
Capacity control	variable			For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	10200	m ³ /h
Sound power level, indoor / outdoor measured	L_{WA}	79	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 fuel input GCV				
GWP of the refrigerant		675	kg CO ₂ eq (100 years)				
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PRODUCT INFORMATION(1)

Model(s): Information to identify the model(s) to which the information relates: Outdoor : PUHY-M300YXM-A(-BS) Indoor : PEFY-MS50VMA-A1×6 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	$\eta_{s,c}$	305.8	%
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			
$T_j = +35\text{ °C}$	P_{dc}	33.50	kW	$T_j = +35\text{ °C}$	EER_d	3.62	%
$T_j = +30\text{ °C}$	P_{dc}	24.68	kW	$T_j = +30\text{ °C}$	EER_d	5.61	%
$T_j = +25\text{ °C}$	P_{dc}	15.87	kW	$T_j = +25\text{ °C}$	EER_d	9.63	%
$T_j = +20\text{ °C}$	P_{dc}	13.28	kW	$T_j = +20\text{ °C}$	EER_d	16.03	%
Degradation co-efficient air conditioners**							
	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.056	kW	Crankcase heater mode	P_{CK}	0.021	kW
Thermostat-off mode	P_{TO}	0.021	kW	Standby mode	P_{SB}	0.056	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		675	kg CO ₂ eq (100 years)				
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Outdoor heat exchanger of air conditioner: air							
Indoor heat exchanger of air conditioner: air							
Indication if the heater is equipped with a supplementary heater: no							
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	33.50	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	187.4	%
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			
$T_j = -7\text{ °C}$	P_{dh}	15.13	kW	$T_j = -7\text{ °C}$	COP_d	2.68	%
$T_j = +2\text{ °C}$	P_{dh}	9.21	kW	$T_j = +2\text{ °C}$	COP_d	4.86	%
$T_j = +7\text{ °C}$	P_{dh}	7.42	kW	$T_j = +7\text{ °C}$	COP_d	6.81	%
$T_j = +12\text{ °C}$	P_{dh}	9.01	kW	$T_j = +12\text{ °C}$	COP_d	8.48	%
$T_j = \text{bivalent temperature}$	P_{dh}	17.10	kW	$T_j = \text{bivalent temperature}$	COP_d	1.89	%
$T_j = \text{operation limit}$	P_{dh}	17.10	kW	$T_j = \text{operation limit}$	COP_d	1.89	%
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if P_{dh} $T_{OL} < -20\text{ °C}$)		-	kW	For water-to-air heat pumps: $T_j = -15\text{ °C}$ (if $T_{OL} < -20\text{ °C}$)	COP_d	-	%
Bivalent temperature	T_{biv}	-10.0	°C	For water-to-air heat pumps: Operation limit temperature	T_{ol}	-	°C
Degradation co-efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.056	kW	Electric back-up heating capacity *	e_{lbu}	0.000	kW
Thermostat-off mode	P_{TO}	0.119	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.021	kW	Standby mode	P_{SB}	0.134	kW
Other items							
Capacity control	variable			For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	12600	m ³ /h
Sound power level, indoor / outdoor measured	L_{WA}	83	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 fuel input GCV				
GWP of the refrigerant		675	kg CO ₂ eq (100 years)				
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Model(s): Information to identify the model(s) to which the information relates: Outdoor : PUHY-M350YXM-A(-BS) Indoor : PEFY-MS63VMA-A1×4 units, PEFY-MS50VMA-A1×2 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	$\eta_{s,c}$	315.4	%
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			
$T_j = +35\text{ °C}$	P_{dc}	40.00	kW	$T_j = +35\text{ °C}$	EER_d	3.49	%
$T_j = +30\text{ °C}$	P_{dc}	29.47	kW	$T_j = +30\text{ °C}$	EER_d	5.47	%
$T_j = +25\text{ °C}$	P_{dc}	18.95	kW	$T_j = +25\text{ °C}$	EER_d	9.97	%
$T_j = +20\text{ °C}$	P_{dc}	13.35	kW	$T_j = +20\text{ °C}$	EER_d	18.87	%
Degradation co-efficient air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'				Crankcase heater mode			
Off mode	P_{OFF}	0.068	kW	Standby mode	P_{SB}	0.068	kW
Thermostat-off mode	P_{TO}	0.025	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}	78	dB				
if engine driven: Emissions of nitrogen oxides	NO_x	-	mg/kWh fuel input GCV				
GWP of the refrigerant		675	kg CO ₂ eq (100 years)				
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Outdoor heat exchanger of air conditioner: air							
Indoor heat exchanger of air conditioner: air							
Indication if the heater is equipped with a supplementary heater: no							
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	40.00	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	187.4	%
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			
$T_j = -7\text{ °C}$	P_{dh}	18.06	kW	$T_j = -7\text{ °C}$	COP_d	2.64	%
$T_j = +2\text{ °C}$	P_{dh}	10.99	kW	$T_j = +2\text{ °C}$	COP_d	4.73	%
$T_j = +7\text{ °C}$	P_{dh}	7.73	kW	$T_j = +7\text{ °C}$	COP_d	7.02	%
$T_j = +12\text{ °C}$	P_{dh}	9.33	kW	$T_j = +12\text{ °C}$	COP_d	8.75	%
$T_j = \text{bivalent temperature}$	P_{dh}	20.41	kW	$T_j = \text{bivalent temperature}$	COP_d	1.89	%
$T_j = \text{operation limit}$	P_{dh}	20.41	kW	$T_j = \text{operation limit}$	COP_d	1.89	%
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if P_{dh} $T_{OL} < -20\text{ °C}$)		-	kW	For water-to-air heat pumps: $T_j = -15\text{ °C}$ (if $T_{OL} < -20\text{ °C}$)	COP_d	-	%
Bivalent temperature	T_{biv}	-10.0	°C	For water-to-air heat pumps: Operation limit temperature	T_{ol}	-	°C
Degradation co-efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.068	kW	Electric back-up heating capacity *	e_{lbu}	0.000	kW
Thermostat-off mode	P_{TO}	0.130	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.025	kW	Standby mode	P_{SB}	0.145	kW
Other items							
Capacity control	variable			For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	12600	m ³ /h
Sound power level, indoor / outdoor measured	L_{WA}	82	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 fuel input GCV				
GWP of the refrigerant		675	kg CO ₂ eq (100 years)				
Contact details	MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 MOO 7, TAMBON DON HUA ROH, AMPHUR MUANG, CHONBURI 20000, THAILAND						
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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	$\eta_{s,c}$	300.6	%
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			
$T_j = +35\text{ °C}$	P_{dc}	45.00	kW	$T_j = +35\text{ °C}$	EER_d	3.45	%
$T_j = +30\text{ °C}$	P_{dc}	33.16	kW	$T_j = +30\text{ °C}$	EER_d	5.26	%
$T_j = +25\text{ °C}$	P_{dc}	21.32	kW	$T_j = +25\text{ °C}$	EER_d	8.93	%
$T_j = +20\text{ °C}$	P_{dc}	14.47	kW	$T_j = +20\text{ °C}$	EER_d	18.58	%
Degradation co-efficient air conditioners**							
	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.068	kW	Crankcase heater mode	P_{CK}	0.025	kW
Thermostat-off mode	P_{TO}	0.025	kW	Standby mode	P_{SB}	0.068	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	13800	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		675	kg CO ₂ eq (100 years)				
Contact details	MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 MOO 7, TAMBON DON HUA ROH, AMPHUR MUANG, CHONBURI 20000, THAILAND						
** If C_{dc} 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-M400YXM-A(-BS) Indoor : PEFY-MS71VMA-A1×2 units, PEFY-MS63VMA-A1×4 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	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	45.00	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	180.6	%
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			
$T_j = -7\text{ °C}$	P_{dh}	20.31	kW	$T_j = -7\text{ °C}$	COP_d	2.60	%
$T_j = +2\text{ °C}$	P_{dh}	12.36	kW	$T_j = +2\text{ °C}$	COP_d	4.41	%
$T_j = +7\text{ °C}$	P_{dh}	8.99	kW	$T_j = +7\text{ °C}$	COP_d	7.14	%
$T_j = +12\text{ °C}$	P_{dh}	10.52	kW	$T_j = +12\text{ °C}$	COP_d	8.84	%
$T_j = \text{bivalent temperature}$	P_{dh}	22.96	kW	$T_j = \text{bivalent temperature}$	COP_d	1.82	%
$T_j = \text{operation limit}$	P_{dh}	22.96	kW	$T_j = \text{operation limit}$	COP_d	1.82	%
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if P_{dh} $T_{OL} < -20\text{ °C}$)		-	kW	For water-to-air heat pumps: $T_j = -15\text{ °C}$ (if $T_{OL} < -20\text{ °C}$)	COP_d	-	%
Bivalent temperature	T_{biv}	-10.0	°C	For water-to-air heat pumps: Operation limit temperature	T_{ol}	-	°C
Degradation co-efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.068	kW	Electric back-up heating capacity *	e_{lbu}	0.000	kW
Thermostat-off mode	P_{TO}	0.130	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.025	kW	Standby mode	P_{SB}	0.145	kW
Other items							
Capacity control	variable			For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	15600	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 fuel input GCV				
GWP of the refrigerant		675	kg CO ₂ eq (100 years)				
Contact details	MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 MOO 7, TAMBON DON HUA ROH, AMPHUR MUANG, CHONBURI 20000, THAILAND						
** If C_{dh} 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-M450YXM-A(-BS) Indoor : PEFY-MS63VMA-A1×4 units, PEFY-MS50VMA-A1×4 units							
Outdoor heat exchanger of air conditioner: air							
Indoor heat exchanger of air conditioner: air							
Type: compressor driven vapour compression							
if applicable: driver of compressor: electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	50.00	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			
$T_j = +35\text{ °C}$	P_{dc}	50.00	kW	$T_j = +35\text{ °C}$	EER_d	3.31	%
$T_j = +30\text{ °C}$	P_{dc}	36.84	kW	$T_j = +30\text{ °C}$	EER_d	5.13	%
$T_j = +25\text{ °C}$	P_{dc}	23.68	kW	$T_j = +25\text{ °C}$	EER_d	8.78	%
$T_j = +20\text{ °C}$	P_{dc}	14.66	kW	$T_j = +20\text{ °C}$	EER_d	19.19	%
Degradation co-efficient air conditioners**							
	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.076	kW	Crankcase heater mode	P_{CK}	0.028	kW
Thermostat-off mode	P_{TO}	0.028	kW	Standby mode	P_{SB}	0.076	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}	83	dB				
if engine driven: Emissions of nitrogen oxides	NO_x	-	mg/kWh fuel input GCV				
GWP of the refrigerant		675	kg CO ₂ eq (100 years)				
Contact details	MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 MOO 7, TAMBON DON HUA ROH, AMPHUR MUANG, CHONBURI 20000, THAILAND						
<p>** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0.25.</p> <p>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.</p>							

(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-M450YXM-A(-BS) Indoor : PEFY-MS63VMA-A1×4 units, PEFY-MS50VMA-A1×4 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	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	50.00	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	175.4	%
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			
$T_j = -7\text{ °C}$	P_{dh}	22.56	kW	$T_j = -7\text{ °C}$	COP_d	2.59	%
$T_j = +2\text{ °C}$	P_{dh}	13.73	kW	$T_j = +2\text{ °C}$	COP_d	4.06	%
$T_j = +7\text{ °C}$	P_{dh}	8.89	kW	$T_j = +7\text{ °C}$	COP_d	7.31	%
$T_j = +12\text{ °C}$	P_{dh}	10.53	kW	$T_j = +12\text{ °C}$	COP_d	9.18	%
$T_j = \text{bivalent temperature}$	P_{dh}	25.50	kW	$T_j = \text{bivalent temperature}$	COP_d	1.78	%
$T_j = \text{operation limit}$	P_{dh}	25.50	kW	$T_j = \text{operation limit}$	COP_d	1.78	%
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if P_{dh} $T_{OL} < -20\text{ °C}$)		-	kW	For water-to-air heat pumps: $T_j = -15\text{ °C}$ (if $T_{OL} < -20\text{ °C}$)	COP_d	-	%
Bivalent temperature	T_{biv}	-10.0	°C	For water-to-air heat pumps: Operation limit temperature	T_{ol}	-	°C
Degradation co-efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.076	kW	Electric back-up heating capacity *	e_{lbu}	0.000	kW
Thermostat-off mode	P_{TO}	0.139	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.028	kW	Standby mode	P_{SB}	0.153	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}	89	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 fuel input GCV				
GWP of the refrigerant		675	kg CO ₂ eq (100 years)				
Contact details	MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 MOO 7, TAMBON DON HUA ROH, AMPHUR MUANG, CHONBURI 20000, THAILAND						
** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25. Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.							

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PRODUCT INFORMATION(1)

Model(s): Information to identify the model(s) to which the information relates: <div style="text-align: center;">Outdoor : PUHY-M500YXM-A(-BS) Indoor : PEFY-MS63VMA-A1×8 units</div>							
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	$\eta_{s,c}$	278.2	%
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			
$T_j = +35\text{ °C}$	P_{dc}	56.00	kW	$T_j = +35\text{ °C}$	EER_d	2.97	%
$T_j = +30\text{ °C}$	P_{dc}	41.26	kW	$T_j = +30\text{ °C}$	EER_d	4.64	%
$T_j = +25\text{ °C}$	P_{dc}	26.53	kW	$T_j = +25\text{ °C}$	EER_d	8.14	%
$T_j = +20\text{ °C}$	P_{dc}	14.71	kW	$T_j = +20\text{ °C}$	EER_d	19.25	%
Degradation co-efficient air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'				Crankcase heater mode			
Off mode	P_{OFF}	0.076	kW	Standby mode	P_{SB}	0.076	kW
Thermostat-off mode	P_{TO}	0.028	kW				
Other items				For air-to-air air conditioner: Nominal air flow rate, outdoor measured			
Capacity control	variable				-	18300	m ³ /h
Sound power level, outdoor	L_{WA}	87	dB				
if engine driven: Emissions of nitrogen oxides	NO_x	-	mg/kWh fuel input GCV				
GWP of the refrigerant		675	kg CO ₂ eq (100 years)				
Contact details	MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 MOO 7, TAMBON DON HUA ROH, AMPHUR MUANG, CHONBURI 20000, THAILAND						
** If C_{dc} 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-M500YXM-A(-BS) Indoor : PEFY-MS63VMA-A1×8 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	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	56.00	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	171.4	%
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			
$T_j = -7\text{ °C}$	P_{dh}	25.26	kW	$T_j = -7\text{ °C}$	COP_d	2.44	%
$T_j = +2\text{ °C}$	P_{dh}	15.37	kW	$T_j = +2\text{ °C}$	COP_d	3.99	%
$T_j = +7\text{ °C}$	P_{dh}	9.88	kW	$T_j = +7\text{ °C}$	COP_d	7.25	%
$T_j = +12\text{ °C}$	P_{dh}	10.54	kW	$T_j = +12\text{ °C}$	COP_d	9.18	%
$T_j = \text{bivalent temperature}$	P_{dh}	28.55	kW	$T_j = \text{bivalent temperature}$	COP_d	1.73	%
$T_j = \text{operation limit}$	P_{dh}	28.55	kW	$T_j = \text{operation limit}$	COP_d	1.73	%
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if P_{dh} $T_{OL} < -20\text{ °C}$)		-	kW	For water-to-air heat pumps: $T_j = -15\text{ °C}$ (if $T_{OL} < -20\text{ °C}$)	COP_d	-	%
Bivalent temperature	T_{biv}	-10.0	°C	For water-to-air heat pumps: Operation limit temperature	T_{ol}	-	°C
Degradation co-efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.076	kW	Electric back-up heating capacity *	e_{lbu}	0.000	kW
Thermostat-off mode	P_{TO}	0.147	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.028	kW	Standby mode	P_{SB}	0.153	kW
Other items							
Capacity control	variable			For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	18300	m ³ /h
Sound power level, indoor / outdoor measured	L_{WA}	91	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 fuel input GCV				
GWP of the refrigerant		675	kg CO ₂ eq (100 years)				
Contact details	MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 MOO 7, TAMBON DON HUA ROH, AMPHUR MUANG, CHONBURI 20000, THAILAND						
** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25. Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.							

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PRODUCT INFORMATION(1)

Model(s): Information to identify the model(s) to which the information relates: <div style="display: flex; justify-content: space-between;"> Outdoor : PUHY-EM200YXM-A/TR(-BS) Indoor : PEFY-MS50VMA-A1×4 units </div>							
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	$\eta_{s,c}$	346.2	%
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			
$T_j = +35\text{ °C}$	P_{dc}	22.40	kW	$T_j = +35\text{ °C}$	EER_d	4.70	%
$T_j = +30\text{ °C}$	P_{dc}	16.51	kW	$T_j = +30\text{ °C}$	EER_d	6.81	%
$T_j = +25\text{ °C}$	P_{dc}	12.21	kW	$T_j = +25\text{ °C}$	EER_d	11.50	%
$T_j = +20\text{ °C}$	P_{dc}	12.70	kW	$T_j = +20\text{ °C}$	EER_d	16.81	%
Degradation co-efficient air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'				Crankcase heater mode			
Off mode	P_{OFF}	0.048	kW	Standby mode	P_{SB}	0.018	kW
Thermostat-off mode	P_{TO}	0.018	kW			0.048	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		675	kg CO ₂ eq (100 years)				
Contact details	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66,Tebira 6 Chome,Wakayama-City 640-8686,Japan						
** If C_{dc} 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-EM200YXM-A/TR(-BS) Indoor : PEFY-MS50VMA-A1×4 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			
$T_j = -7\text{ °C}$	P_{dh}	10.11	kW
$T_j = +2\text{ °C}$	P_{dh}	6.40	kW
$T_j = +7\text{ °C}$	P_{dh}	7.44	kW
$T_j = +12\text{ °C}$	P_{dh}	8.87	kW
$T_j = \text{bivalent temperature}$	P_{dh}	11.43	kW
$T_j = \text{operation limit}$	P_{dh}	11.43	kW
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if P_{dh} $T_{OL} < -20\text{ °C}$)		-	kW
Bivalent temperature	T_{biv}	-10.0	°C
Degradation co-efficient heat pumps**	C_{dh}	0.25	-
Power consumption in modes other than 'active mode'			
Off mode	P_{OFF}	0.048	kW
Thermostat-off mode	P_{TO}	0.110	kW
Crankcase heater mode	P_{CK}	0.018	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 fuel input GCV
GWP of the refrigerant		675	kg CO ₂ eq (100 years)
Contact details	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66,Tebira 6 Chome,Wakayama-City 640-8686,Japan		
** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25. Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.			

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PRODUCT INFORMATION(1)

Model(s): Information to identify the model(s) to which the information relates: <div style="display: flex; justify-content: space-between;"> Outdoor : PUHY-EM250YXM-A/TR(-BS) Indoor : PEFY-MS63VMA-A1×4 units </div>							
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	$\eta_{s,c}$	333.8	%
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			
$T_j = +35\text{ °C}$	P_{dc}	28.00	kW	$T_j = +35\text{ °C}$	EER_d	4.17	%
$T_j = +30\text{ °C}$	P_{dc}	20.63	kW	$T_j = +30\text{ °C}$	EER_d	5.98	%
$T_j = +25\text{ °C}$	P_{dc}	13.26	kW	$T_j = +25\text{ °C}$	EER_d	10.89	%
$T_j = +20\text{ °C}$	P_{dc}	12.53	kW	$T_j = +20\text{ °C}$	EER_d	17.08	%
Degradation co-efficient air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'				Crankcase heater mode			
Off mode	P_{OFF}	0.048	kW	Standby mode	P_{SB}	0.018	kW
Thermostat-off mode	P_{TO}	0.018	kW			0.048	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}	78	dB				
if engine driven: Emissions of nitrogen oxides	NO_x	-	mg/kWh fuel input GCV				
GWP of the refrigerant		675	kg CO ₂ eq (100 years)				
Contact details	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66,Tebira 6 Chome,Wakayama-City 640-8686,Japan						
** If C_{dc} 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-EM250YXM-A/TR(-BS) Indoor : PEFY-MS63VMA-A1×4 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	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	28.00	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	187.8	%
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			
$T_j = -7\text{ °C}$	P_{dh}	12.63	kW	$T_j = -7\text{ °C}$	COP_d	2.77	%
$T_j = +2\text{ °C}$	P_{dh}	7.69	kW	$T_j = +2\text{ °C}$	COP_d	5.02	%
$T_j = +7\text{ °C}$	P_{dh}	7.39	kW	$T_j = +7\text{ °C}$	COP_d	6.55	%
$T_j = +12\text{ °C}$	P_{dh}	8.92	kW	$T_j = +12\text{ °C}$	COP_d	8.02	%
$T_j = \text{bivalent temperature}$	P_{dh}	14.28	kW	$T_j = \text{bivalent temperature}$	COP_d	2.08	%
$T_j = \text{operation limit}$	P_{dh}	14.28	kW	$T_j = \text{operation limit}$	COP_d	2.08	%
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if P_{dh} $T_{OL} < -20\text{ °C}$)		-	kW	For water-to-air heat pumps: $T_j = -15\text{ °C}$ (if $T_{OL} < -20\text{ °C}$)	COP_d	-	%
Bivalent temperature	T_{biv}	-10.0	°C	For water-to-air heat pumps: Operation limit temperature	T_{ol}	-	°C
Degradation co-efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.048	kW	Electric back-up heating capacity *	e_{lbu}	0.000	kW
Thermostat-off mode	P_{TO}	0.110	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.018	kW	Standby mode	P_{SB}	0.125	kW
Other items							
Capacity control	variable			For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	10200	m ³ /h
Sound power level, indoor / outdoor measured	L_{WA}	79	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 fuel input GCV				
GWP of the refrigerant		675	kg CO ₂ eq (100 years)				
Contact details	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66,Tebira 6 Chome,Wakayama-City 640-8686,Japan						
** If C_{dh} 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: <div style="text-align: center;">Outdoor : PUHY-EM300YXM-A/TR(-BS) Indoor : PEFY-MS50VMA-A1×6 units</div>							
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	$\eta_{s,c}$	351.0	%
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			
$T_j = +35\text{ °C}$	P_{dc}	33.50	kW	$T_j = +35\text{ °C}$	EER_d	4.18	%
$T_j = +30\text{ °C}$	P_{dc}	24.68	kW	$T_j = +30\text{ °C}$	EER_d	6.23	%
$T_j = +25\text{ °C}$	P_{dc}	15.87	kW	$T_j = +25\text{ °C}$	EER_d	11.22	%
$T_j = +20\text{ °C}$	P_{dc}	13.28	kW	$T_j = +20\text{ °C}$	EER_d	19.51	%
Degradation co-efficient air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'				Crankcase heater mode			
Off mode	P_{OFF}	0.056	kW	Standby mode	P_{SB}	0.056	kW
Thermostat-off mode	P_{TO}	0.021	kW				
Other items				For air-to-air air conditioner: Nominal air flow rate, outdoor measured			
Capacity control	variable				-	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		675	kg CO ₂ eq (100 years)				
Contact details	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66,Tebira 6 Chome,Wakayama-City 640-8686,Japan						
** If C_{dc} 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-EM300YXM-A/TR(-BS) Indoor : PEFY-MS50VMA-A1×6 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	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	33.50	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	187.8	%
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			
$T_j = -7\text{ °C}$	P_{dh}	15.13	kW	$T_j = -7\text{ °C}$	COP_d	2.68	%
$T_j = +2\text{ °C}$	P_{dh}	9.21	kW	$T_j = +2\text{ °C}$	COP_d	4.86	%
$T_j = +7\text{ °C}$	P_{dh}	7.42	kW	$T_j = +7\text{ °C}$	COP_d	6.82	%
$T_j = +12\text{ °C}$	P_{dh}	9.01	kW	$T_j = +12\text{ °C}$	COP_d	8.53	%
$T_j = \text{bivalent temperature}$	P_{dh}	17.10	kW	$T_j = \text{bivalent temperature}$	COP_d	1.97	%
$T_j = \text{operation limit}$	P_{dh}	17.10	kW	$T_j = \text{operation limit}$	COP_d	1.97	%
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if P_{dh} $T_{OL} < -20\text{ °C}$)		-	kW	For water-to-air heat pumps: $T_j = -15\text{ °C}$ (if $T_{OL} < -20\text{ °C}$)	COP_d	-	%
Bivalent temperature	T_{biv}	-10.0	°C	For water-to-air heat pumps: Operation limit temperature	T_{ol}	-	°C
Degradation co-efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.056	kW	Electric back-up heating capacity *	e_{lbu}	0.000	kW
Thermostat-off mode	P_{TO}	0.119	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.021	kW	Standby mode	P_{SB}	0.134	kW
Other items							
Capacity control	variable			For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	12000	m ³ /h
Sound power level, indoor / outdoor measured	L_{WA}	83	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 fuel input GCV				
GWP of the refrigerant		675	kg CO ₂ eq (100 years)				
Contact details	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66,Tebira 6 Chome,Wakayama-City 640-8686,Japan						
** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25. Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.							

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PRODUCT INFORMATION(1)

Model(s): Information to identify the model(s) to which the information relates: Outdoor : PUHY-EM350YXM-A/TR(-BS) Indoor : PEFY-MS63VMA-A1×4 units, PEFY-MS50VMA-A1×2 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	$\eta_{s,c}$	330.2	%
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			
$T_j = +35\text{ °C}$	P_{dc}	40.00	kW	$T_j = +35\text{ °C}$	EER_d	3.75	%
$T_j = +30\text{ °C}$	P_{dc}	29.47	kW	$T_j = +30\text{ °C}$	EER_d	5.64	%
$T_j = +25\text{ °C}$	P_{dc}	18.95	kW	$T_j = +25\text{ °C}$	EER_d	10.33	%
$T_j = +20\text{ °C}$	P_{dc}	13.35	kW	$T_j = +20\text{ °C}$	EER_d	20.54	%
Degradation co-efficient air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'				Crankcase heater mode			
Off mode	P_{OFF}	0.068	kW	Standby mode	P_{CK}	0.025	kW
Thermostat-off mode	P_{TO}	0.025	kW		P_{SB}	0.068	kW
Other items				For air-to-air air conditioner: Nominal air flow rate, outdoor measured			
Capacity control	variable				-	12600	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		675	kg CO ₂ eq (100 years)				
Contact details	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66,Tebira 6 Chome,Wakayama-City 640-8686,Japan						
** If C_{dc} 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)

Model(s): Information to identify the model(s) to which the information relates: Outdoor : PUHY-EM350YXM-A/TR(-BS) Indoor : PEFY-MS63VMA-A1×4 units, PEFY-MS50VMA-A1×2 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	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	40.00	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	187.4	%
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			
$T_j = -7\text{ °C}$	P_{dh}	18.06	kW	$T_j = -7\text{ °C}$	COP_d	2.56	%
$T_j = +2\text{ °C}$	P_{dh}	10.99	kW	$T_j = +2\text{ °C}$	COP_d	4.81	%
$T_j = +7\text{ °C}$	P_{dh}	7.73	kW	$T_j = +7\text{ °C}$	COP_d	6.94	%
$T_j = +12\text{ °C}$	P_{dh}	9.33	kW	$T_j = +12\text{ °C}$	COP_d	8.68	%
$T_j = \text{bivalent temperature}$	P_{dh}	20.41	kW	$T_j = \text{bivalent temperature}$	COP_d	1.84	%
$T_j = \text{operation limit}$	P_{dh}	20.41	kW	$T_j = \text{operation limit}$	COP_d	1.84	%
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if P_{dh} $T_{OL} < -20\text{ °C}$)		-	kW	For water-to-air heat pumps: $T_j = -15\text{ °C}$ (if $T_{OL} < -20\text{ °C}$)	COP_d	-	%
Bivalent temperature	T_{biv}	-10.0	°C	For water-to-air heat pumps: Operation limit temperature	T_{ol}	-	°C
Degradation co-efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.068	kW	Electric back-up heating capacity *	e_{lbu}	0.000	kW
Thermostat-off mode	P_{TO}	0.130	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.025	kW	Standby mode	P_{SB}	0.145	kW
Other items							
Capacity control	variable			For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	13200	m ³ /h
Sound power level, indoor / outdoor measured	L_{WA}	82	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 fuel input GCV				
GWP of the refrigerant		675	kg CO ₂ eq (100 years)				
Contact details	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66,Tebira 6 Chome,Wakayama-City 640-8686,Japan						
** If C_{dh} 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-EM400YXM-A/TR(-BS) Indoor : PEFY-MS71VMA-A1×2 units, PEFY-MS63VMA-A1×4 units							
Outdoor heat exchanger of air conditioner: air							
Indoor heat exchanger of air conditioner: air							
Type: compressor driven vapour compression							
if applicable: driver of compressor: electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	45.00	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	316.6	%
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			
$T_j = +35\text{ °C}$	P_{dc}	45.00	kW	$T_j = +35\text{ °C}$	EER_d	3.69	%
$T_j = +30\text{ °C}$	P_{dc}	33.16	kW	$T_j = +30\text{ °C}$	EER_d	5.42	%
$T_j = +25\text{ °C}$	P_{dc}	21.32	kW	$T_j = +25\text{ °C}$	EER_d	9.25	%
$T_j = +20\text{ °C}$	P_{dc}	14.47	kW	$T_j = +20\text{ °C}$	EER_d	21.11	%
Degradation co-efficient air conditioners**							
	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.068	kW	Crankcase heater mode	P_{CK}	0.025	kW
Thermostat-off mode	P_{TO}	0.025	kW	Standby mode	P_{SB}	0.068	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	14400	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		675	kg CO ₂ eq (100 years)				
Contact details	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66,Tebira 6 Chome,Wakayama-City 640-8686,Japan						
** If C_{dc} 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-EM400YXM-A/TR(-BS) Indoor : PEFY-MS71VMA-A1×2 units, PEFY-MS63VMA-A1×4 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	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	45.00	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	180.6	%
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			
$T_j = -7\text{ °C}$	P_{dh}	20.31	kW	$T_j = -7\text{ °C}$	COP_d	2.52	%
$T_j = +2\text{ °C}$	P_{dh}	12.36	kW	$T_j = +2\text{ °C}$	COP_d	4.49	%
$T_j = +7\text{ °C}$	P_{dh}	8.99	kW	$T_j = +7\text{ °C}$	COP_d	7.04	%
$T_j = +12\text{ °C}$	P_{dh}	10.52	kW	$T_j = +12\text{ °C}$	COP_d	8.75	%
$T_j = \text{bivalent temperature}$	P_{dh}	22.96	kW	$T_j = \text{bivalent temperature}$	COP_d	1.80	%
$T_j = \text{operation limit}$	P_{dh}	22.96	kW	$T_j = \text{operation limit}$	COP_d	1.80	%
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if P_{dh} $T_{OL} < -20\text{ °C}$)		-	kW	For water-to-air heat pumps: $T_j = -15\text{ °C}$ (if $T_{OL} < -20\text{ °C}$)	COP_d	-	%
Bivalent temperature	T_{biv}	-10.0	°C	For water-to-air heat pumps: Operation limit temperature	T_{ol}	-	°C
Degradation co-efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.068	kW	Electric back-up heating capacity *	e_{lbu}	0.000	kW
Thermostat-off mode	P_{TO}	0.130	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.025	kW	Standby mode	P_{SB}	0.145	kW
Other items							
Capacity control	variable			For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	16200	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 fuel input GCV				
GWP of the refrigerant		675	kg CO ₂ eq (100 years)				
Contact details	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66, Tebira 6 Chome, Wakayama-City 640-8686, Japan						
** If C_{dh} 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-EM450YXM-A/TR(-BS) Indoor : PEFY-MS63VMA-A1×4 units, PEFY-MS50VMA-A1×4 units							
Outdoor heat exchanger of air conditioner: air							
Indoor heat exchanger of air conditioner: air							
Type: compressor driven vapour compression							
if applicable: driver of compressor: electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	50.00	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	313.4	%
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			
$T_j = +35\text{ °C}$	P_{dc}	50.00	kW	$T_j = +35\text{ °C}$	EER_d	3.54	%
$T_j = +30\text{ °C}$	P_{dc}	36.84	kW	$T_j = +30\text{ °C}$	EER_d	5.34	%
$T_j = +25\text{ °C}$	P_{dc}	23.68	kW	$T_j = +25\text{ °C}$	EER_d	9.08	%
$T_j = +20\text{ °C}$	P_{dc}	14.66	kW	$T_j = +20\text{ °C}$	EER_d	21.78	%
Degradation co-efficient air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'				Crankcase heater mode			
Off mode	P_{OFF}	0.076	kW	Standby mode	P_{CK}	0.028	kW
Thermostat-off mode	P_{TO}	0.028	kW		P_{SB}	0.076	kW
Other items				For air-to-air air conditioner: Nominal air flow rate, outdoor measured			
Capacity control	variable				-	15600	m ³ /h
Sound power level, outdoor	L_{WA}	83	dB				
if engine driven: Emissions of nitrogen oxides	NO_x	-	mg/kWh fuel input GCV				
GWP of the refrigerant		675	kg CO ₂ eq (100 years)				
Contact details	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66,Tebira 6 Chome,Wakayama-City 640-8686,Japan						
** If C_{dc} 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-EM450YXM-A/TR(-BS) Indoor : PEFY-MS63VMA-A1×4 units, PEFY-MS50VMA-A1×4 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	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	50.00	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	175.4	%
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			
$T_j = -7\text{ °C}$	P_{dh}	22.56	kW	$T_j = -7\text{ °C}$	COP_d	2.47	%
$T_j = +2\text{ °C}$	P_{dh}	13.73	kW	$T_j = +2\text{ °C}$	COP_d	4.21	%
$T_j = +7\text{ °C}$	P_{dh}	8.89	kW	$T_j = +7\text{ °C}$	COP_d	7.10	%
$T_j = +12\text{ °C}$	P_{dh}	10.53	kW	$T_j = +12\text{ °C}$	COP_d	8.90	%
$T_j = \text{bivalent temperature}$	P_{dh}	25.50	kW	$T_j = \text{bivalent temperature}$	COP_d	1.73	%
$T_j = \text{operation limit}$	P_{dh}	25.50	kW	$T_j = \text{operation limit}$	COP_d	1.73	%
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if P_{dh} $T_{OL} < -20\text{ °C}$)		-	kW	For water-to-air heat pumps: $T_j = -15\text{ °C}$ (if $T_{OL} < -20\text{ °C}$)	COP_d	-	%
Bivalent temperature	T_{biv}	-10.0	°C	For water-to-air heat pumps: Operation limit temperature	T_{ol}	-	°C
Degradation co-efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.076	kW	Electric back-up heating capacity *	e_{lbu}	0.000	kW
Thermostat-off mode	P_{TO}	0.139	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.028	kW	Standby mode	P_{SB}	0.153	kW
Other items							
Capacity control	variable			For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	18600	m ³ /h
Sound power level, indoor / outdoor measured	L_{WA}	89	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 fuel input GCV				
GWP of the refrigerant		675	kg CO ₂ eq (100 years)				
Contact details	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66,Tebira 6 Chome,Wakayama-City 640-8686,Japan						
** If C_{dh} 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: <div style="display: flex; justify-content: space-between;"> Outdoor : PUHY-EM500YXM-A/TR(-BS) Indoor : PEFY-MS63VMA-A1×8 units </div>							
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	$\eta_{s,c}$	294.2	%
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			
$T_j = +35\text{ °C}$	P_{dc}	56.00	kW	$T_j = +35\text{ °C}$	EER_d	3.23	%
$T_j = +30\text{ °C}$	P_{dc}	41.26	kW	$T_j = +30\text{ °C}$	EER_d	4.85	%
$T_j = +25\text{ °C}$	P_{dc}	26.53	kW	$T_j = +25\text{ °C}$	EER_d	8.39	%
$T_j = +20\text{ °C}$	P_{dc}	14.71	kW	$T_j = +20\text{ °C}$	EER_d	21.81	%
Degradation co-efficient air conditioners**							
	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.076	kW	Crankcase heater mode	P_{CK}	0.028	kW
Thermostat-off mode	P_{TO}	0.028	kW	Standby mode	P_{SB}	0.076	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}	87	dB				
if engine driven: Emissions of nitrogen oxides	NO_x	-	mg/kWh fuel input GCV				
GWP of the refrigerant		675	kg CO ₂ eq (100 years)				
Contact details	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66,Tebira 6 Chome,Wakayama-City 640-8686,Japan						
** If C_{dc} 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)

Model(s): Information to identify the model(s) to which the information relates: Outdoor : PUHY-EM500YXM-A/TR(-BS) Indoor : PEFY-MS63VMA-A1×8 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	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	56.00	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	171.4	%
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			
$T_j = -7\text{ °C}$	P_{dh}	25.26	kW	$T_j = -7\text{ °C}$	COP_d	2.39	%
$T_j = +2\text{ °C}$	P_{dh}	15.37	kW	$T_j = +2\text{ °C}$	COP_d	4.04	%
$T_j = +7\text{ °C}$	P_{dh}	9.88	kW	$T_j = +7\text{ °C}$	COP_d	7.14	%
$T_j = +12\text{ °C}$	P_{dh}	10.54	kW	$T_j = +12\text{ °C}$	COP_d	9.08	%
$T_j = \text{bivalent temperature}$	P_{dh}	28.55	kW	$T_j = \text{bivalent temperature}$	COP_d	1.78	%
$T_j = \text{operation limit}$	P_{dh}	28.55	kW	$T_j = \text{operation limit}$	COP_d	1.78	%
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if P_{dh} $T_{OL} < -20\text{ °C}$)		-	kW	For water-to-air heat pumps: $T_j = -15\text{ °C}$ (if $T_{OL} < -20\text{ °C}$)	COP_d	-	%
Bivalent temperature	T_{biv}	-10.0	°C	For water-to-air heat pumps: Operation limit temperature	T_{ol}	-	°C
Degradation co-efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.076	kW	Electric back-up heating capacity *	e_{lbu}	0.000	kW
Thermostat-off mode	P_{TO}	0.147	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.028	kW	Standby mode	P_{SB}	0.153	kW
Other items							
Capacity control	variable			For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	18900	m ³ /h
Sound power level, indoor / outdoor measured	L_{WA}	91	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 fuel input GCV				
GWP of the refrigerant		675	kg CO ₂ eq (100 years)				
Contact details	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66, Tebira 6 Chome, Wakayama-City 640-8686, Japan						
** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25. Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.							

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