PRODUCT INFORMATION
PUHY-M***YNW-A1 (-BS)
PUHY-EM***YNW-A1 (-BS)
For Europe Regulation

PRODUCT INFORMATION(1)

					MICKWIATION				
Model(s): Information t						N A 4			
Outdoor: PUH Outdoor heat exchanger				11	ndoor: PEFY-W50VMA2	Z-A×4 unit	S		
Indoor heat exchanger of									
Type: compressor drive									
if applicable: driver of c									
Item	Symbol	Value	Unit		Item S	ymbol		Value	Unit
Rated cooling capacity	$P_{\text{rated,c}}$	22.40	kW		Seasonal space cooling energy efficiency	ls,c		259	%
Declared cooling capa outdoor temperatures T _j bulb)		or 27°/19°	°C (dry/wet		Declared energy efficience auxiliary energy factor temperatures T _j				
$T_j = +35$ °C	Pdc	22.40	kW		J	EER_d		4.05	%
$T_j = +30 ^{\circ}\text{C}$	Pdc	16.51	kW		J	EER_d		5.57	%
$T_j = +25 ^{\circ}C$	Pdc	10.61	kW			EER_d		8.70	%
$T_j = +20 ^{\circ}C$	Pdc	10.47	kW		$T_j = +20 ^{\circ}\text{C}$	EER_d		10.63	%
Degradation co- efficient air conditioners**	C_d	0.25	-						
Power consumption in r	nodes othe	er than 'a	ctive mode'						
Off mode	P_{OFF}	0.000	kW		Crankcase heater mode	P_{CK}		0.035	kW
Thermostat-off mode	P _{TO}	0.072	kW		Standby mode	P _{SB}		0.053	
Thermostat on mode	- 10	0.072			Standey mode	- 35		0.00.	IC TT
Other items		l .							
Capacity control	variable				For air-to-air air conditioner: Nominal air flow rate, outdoor measured		10200	r	m³/h
Sound power level, outdoor	L_{WA}	75.0	dB						
if engine driven: Emissions of nitrogen oxides			mg/kWh fuel input GCV						
GWP of the refrigerant		675	kg CO _{2 ep} (100 years)						
Contact details	AIR-CON 5-66,Teb	NDITION ira 6 Cho	NING & RE ome,Wakaya	F	RPORATION RIGERATION SYSTEMS na-City 640-8686,Japan		•	•	
** If C _d is not determine	ed by mea	surement	then the de	fa	ult degradation coefficient	t air condit	ioners sh	all be	0.25.
Where information rela	tes to mul	ti-split ai	ir conditione	er	s, the test result and perfo	rmance da	ta may b	e obta	ined on the

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

					NFORMATION ⁽¹⁾					
Model(s): Information to	-									
Outdoor: PUH			(-BS)	Iı	ndoor: PEFY-W50VMA2	2-A×4 units	S			
Outdoor heat exchanger				_						
Indoor heat exchanger of				_	•					
Indication if the heater i						1	1 -1 1-			
optional.	lared for	tne averaș	ge neating s	ea	son, parameters for the wa	armer and	colder n	eating	sea	isons are
Item	Symbol	Value	Unit	_	Item	Symbol		Valı	10	Unit
					Seasonal space heating	Symbol		Van	iic	Oiiit
Rated heating capacity	P _{rated,h}	22.50	kW		energy efficiency	η _{s,h}		143		%
Declared heating capa	city for	part load	at indoor		Declared coefficient of	-		_		
temperature 20 °C and o	outdoor te	mperature	e T _j		$\begin{array}{ll} \text{efficiency} \ / \ \text{auxiliary} \ \text{en} \\ \text{outdoor temperatures} \ T_j \end{array}$	lergy facto	or for p	art 10	au	at given
$T_j = -7 ^{\circ}C$	Pdh		kW		$T_j = -7$ °C	COP_d		3.03		%
$T_j = +2 {}^{\circ}C$	Pdh	12.12	kW	İ	$T_j = +2 ^{\circ}C$	COP_d		2.72		0/0
$T_j = +7 ^{\circ}C$	Pdh	7.79	kW		$T_j = +7 ^{\circ}C$	COP_d		6.13		%
$T_j = + 12 ^{\circ}\text{C}$	Pdh	7.74	kW		$T_j = + 12 ^{\circ}\text{C}$	COP_d		9.22		%
$T_j = bivalent$	Pdh	22.50	kW		$T_j = bivalent$	COP_d		2.30		%
temperature	D.II		_		temperature					
T_j = operation limit	Pdh	12.10	kW		$T_j = \text{operation limit}$	COP_d		1.66		%
For air-to-water heat			1-337		For water-to-air heat	COD				0/
pumps: $T_j = -15 \text{ °C (if } T_{OL} < -20 \text{ °C)}$	Pull	-	kW		pumps: $T_j = -15$ °C (if $T_{OL} < -20$ °C)	COP_d		-		0/0
1 _{OL} < - 20 C)					For water-to-air heat					
Bivalent temperature	$T_{\rm biv}$	-10.0	°C		pumps: Operation limit	T_{ol}		L		°C
Bivaient temperature	- DIV	10.0			temperature	ı ol				C
		-			ioniporaturo.					
Degradation co- efficient heat pumps**	C_{dh}	0.25	-							
Power consumption in r	nodes oth	er than 'a	ctive mode'		Supplementary heater					
	_		1		Electric back-up					
Off mode	P_{OFF}	0.000	kW		heating capacity *	elbu		0.000)	kW
Thermostat-off mode	P_{TO}	0.072	kW		Type of energy input					
Crankcase heater mode	P_{CK}	0.035	kW		Standby mode	P_{SB}		0.064		kW
Other items				L						
Capacity control	variable				For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	10200	1	m³/l	1
Sound power level,					For water-/brine-to-air					
indoor / outdoor	L_{WA}	78.0	dB		heat pumps: Rated					
measured				L	brine or water flow	-	-	1	m³/l	1
Emissions of nitrogen	NO_x	-	mg/kWh		rate, outdoor heat					
oxides (if applicable)			-	\vdash	exchanger	-				
GWP of the refrigerant		675	kg CO _{2 ep} (100 years)							
					RPORATION					
Contact details					RIGERATION SYSTEMS	WORKS				
					na-City 640-8686,Japan					
-	-				ult degradation coefficient	_	-			
					s, the test result and perfo					
basis of the performanc or importer.	e of the o	outdoor ui	nit, with a c	:01	mbination of indoor unit(s) recomme	naea by	tne n	nan	игасturer
or importer.										

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

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Model(s): Information t	-								
Outdoor: PUH				I	ndoor: PEFY-W63VMA	2-A×4 units	S		
Outdoor heat exchanger of Indoor heat exchanger of									
Type: compressor drive									
if applicable: driver of o									
	Symbol	Value	Unit		Itam	Symbol		Value	Ilmit
Item	Symbol	Value	Unit	1		-		varuc	Unit
Rated cooling capacity	$P_{\text{rated,c}}$	28.00	kW		Seasonal space cooling energy efficiency	ls,c		249	%
Declared cooling capa	acity for	part loa	d at given	1	Declared energy efficien	cy ratio or	gas utili	zation	efficiency ,
outdoor temperatures T	and indo	or 27°/19	°C (dry/wet		auxiliary energy factor	for part	load a	at give	en outdoor
bulb)					temperatures T _j				
$T_i = +35$ °C	Pdc	28.00	kW		$T_i = +35 ^{\circ}\text{C}$	EER_d		3.34	%
$T_i = +30 {}^{\circ}\text{C}$	Pdc	20.63	kW		$T_i = +30 ^{\circ}\text{C}$	EER _d		4.70	%
$T_i = +25 ^{\circ}C$	Pdc	13.26	kW		3	EER_d		8.19	9/0
$T_i = +20 ^{\circ}C$	Pdc	10.45	kW		3	EER _d		12.31	%
1 ₁ - + 20 C	T de	10.45	K **			32340		12.51	⁷⁰
Degradation co-			1						
_	\cdot C_d	0.25	_						
conditioners**	u	1							
				1				ı	
Power consumption in a	nodes oth	er than 'a	ctive mode						
Off mode	P_{OFF}	0.000	kW		Crankcase heater mode	P_{CK}		0.035	kW
Thermostat-off mode	P_{TO}	0.072	kW		Standby mode	P_{SB}		0.064	kW
			1		·				
Other items		- W	<u> </u>	1					
					For air-to-air ai	ſ			
Capacity control	variable				conditioner: Nominal ai	r	11100	n	n³/h
Capacity control	variable				flow rate, outdoo	ſ	11100	11	11 / 11
					measured				
Sound power level,	L _{WA}	78.0	dB						
outdoor	-WA		ub						
if engine driven:			mg/kWh						
Emissions of nitrogen			fuel input						
oxides	A A		GCV						
0.1140									
GWP of the refrigerant		675	kg CO ₂ ep						
owr of the ferrigerant		0/3	(100 years)						
	MITSUB	ISHI EL	ECTRIC C	O]	RPORATION	1	1		
Contact details	AIR-CO	NDITION	NING & RE	EF	RIGERATION SYSTEMS	S WORKS			
	5-66,Teb	ira 6 Cho	ome,Wakay	an	na-City 640-8686,Japan				
** If C _d is not determin					ult degradation coefficien	t air condit	ioners sl	nall be	0.25.

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

Model(s): Information t	o identify				the information relates:							
1 1	Outdoor: PUHY-M250YNW-A1 (-BS) Indoor: PEFY-W63VMA2-A×4 units											
Outdoor heat exchanger				_		- 11						
Indoor heat exchanger				_								
Indication if the heater				ar	y heater: no							
				_	ason, parameters for the w	armer and	colder h	eating	g sea	asons are		
optional.												
Item	Symbol	Value	Unit		Item	Symbol		Val	ue	Unit		
Rated heating capacity	P11	22.50	kW		Seasonal space heating	n .		13	8	%		
Rated heating capacity	rated,h	22.50	K VV	l	energy efficiency	$\eta_{s,h}$						
Declared heating capa	city for	nart load	l at indoor	ĺ	Declared coefficient of							
temperature 20 °C and of				ĺ	efficiency / auxiliary er	nergy facto	or for p	art lo	oad	at given		
			-	ĺ	outdoor temperatures T _j					i		
$T_j = -7 ^{\circ}C$	Pdh		kW	ĺ	$T_j = -7 ^{\circ}C$	COP_d		2.72		0/0		
$T_j = + 2 ^{\circ}C$	Pdh	_	kW	ĺ	$T_j = +2 {}^{\circ}C$	COP_d		3.15		%		
$T_j = +7 ^{\circ}C$	Pdh	7.79	kW	ĺ	$T_j = +7 ^{\circ}C$	COP_d		4.72		%		
$T_{j} = + 12 {}^{\circ}\text{C}$	Pdh	6.82	kW	ĺ	$T_j = + 12 ^{\circ}\text{C}$	COP_d		5.93		%		
$T_j = bivalent$	Pdh	22.50	kW	ĺ	$T_j = bivalent$	COP_d		2.75		9/0		
temperature				ĺ	temperature							
T_j = operation limit	Pdh	12.15	kW	ĺ	T_j = operation limit	COP_d		2.34		%		
For air-to-water heat				ĺ	For water-to-air heat							
pumps: $T_j = -15$ °C (if	Pdh	-	kW	ĺ	pumps: $T_j = -15$ °C (if	COP_d		-		%		
$T_{OL} < -20$ °C)		-	_	ĺ	$T_{OL} < -20$ °C)							
	TT.	100		ĺ	For water-to-air heat							
Bivalent temperature	$T_{\rm biv}$	-10.0	°C	ĺ	pumps: Operation limit	T_{ol}		-		°C		
		-	_	ĺ	temperature							
			4	ĺ								
Degradation co-	C_{dh}	0.25	-	ĺ								
efficient heat pumps**												
Power consumption in a	nodes oth	er than 'a	ctive mode'		Supplementary heater							
			7		Electric back-up							
Off mode	P_{OFF}	0.000	kW	ĺ	heating capacity *	elbu		0.00	0	kW		
Thermostat-off mode	P_{TO}	0.072	kW	ĺ	Type of energy input							
			1	ĺ		_						
Crankcase heater mode	P_{CK}	0.035	kW	ĺ	Standby mode	P_{SB}		0.06	4	kW		
Other items			1	ĺ		1						
				Г	For air-to-air heat							
C : 1				ĺ	pumps: Nominal air		11100		3/	L		
Capacity control	variable			ĺ	flow rate, outdoor	-	11100		m ³ /	n		
				L	measured							
Sound power level,					For water-/brine-to-air							
indoor / outdoor	L_{WA}	80.0	dB	ĺ	heat pumps: Rated							
measured				L	brine or water flow	-	-		m³/	h		
Emissions of nitrogen	NO	_	mg/kWh	ĺ	rate, outdoor heat							
oxides (if applicable)	T(O _X		mg/K vv n	L	exchanger							
CIVID 64 6			kg CO2 ep	ĺ								
GWP of the refrigerant		675	(100 years)	ĺ								
	MITSUE	BISHI EL	ECTRIC CO	 []	RPORATION	1	<u> </u>					
Contact details					RIGERATION SYSTEMS	WORKS						
					na-City 640-8686,Japan	011110						
** If C _d is not determin					nult degradation coefficien	t of heat nu	ımps sha	ıll be	0,25	5.		
					s, the test result and perfo							
					mbination of indoor unit(s							

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Model(s): Information t	-								
Outdoor: PUH				I	ndoor: PEFY-W50VMA	2-A×6 units	3		
Outdoor heat exchanger of Indoor heat exchanger of									
Type: compressor drive									
if applicable: driver of c									
Item	Symbol	Value	Unit		Item	Symbol		Value	Unit
item	Symbol	Value	Oiiii	1		-		varue	- Oint
Rated cooling capacity	$P_{\text{rated},c}$	33.50	kW		Seasonal space cooling energy efficiency	ls,c		253	%
Declared cooling capa	acity for	part loa	d at given	1	Declared energy efficien	cy ratio or	gas utili:	zation	efficiency /
outdoor temperatures T _j	and indo	or 27°/19	°C (dry/wet		auxiliary energy factor	for part	load a	at giv	en outdoor
bulb)					temperatures T _j				
$T_i = +35 ^{\circ}\text{C}$	Pdc	33.50	kW		$T_i = +35 ^{\circ}\text{C}$	EER_d		3.40	9/o
$T_{i} = +30 {}^{\circ}\text{C}$	Pdc	24.68	kW		$T_i = +30 ^{\circ}\text{C}$	EER_d		5.42	%
$T_i = +25 ^{\circ}\text{C}$	Pdc	15.87	kW		3	EER_d		7.68	%
$T_j = +20 ^{\circ}C$	Pdc	11.03	kW		3	EER _d		10.88	9/0
Degradation co-		0.25							
	C_d	0.25	-						
conditioners**				-					
Power consumption in r	nodes oth	er than 'a	ctive mode'						
Off mode	P_{OFF}	0.000	kW		Crankcase heater mode	P_{CK}		0.035	kW
Thermostat-off mode	P _{TO}	-	kW		Standby mode	P _{SB}		0.053	
Thermostat-off mode	1 TO	0.076	- K vv		Standby mode	1 SB		0.004	K KV
Other items			I.						
					For air-to-air ai				
Capacity control	variable				conditioner: Nominal ai	_	12000	r	m³/h
Cupucity Control					flow rate, outdoo	r	12000		
			ı	L	measured				
Sound power level, outdoor	L_{WA}	80.0	dB						
if engine driven:			mg/kWh						
Emissions of nitrogen		_	fuel input						
oxides			GCV						
				L					
GWP of the refrigerant		675	kg CO ₂ ep						
			(100 years)	L					
					RPORATION				
Contact details					RIGERATION SYSTEMS	S WORKS			
					na-City 640-8686,Japan				
** If C _d is not determine	ed by mea	suremen	t then the de	efa	ult degradation coefficien	t air conditi	ioners sł	nall be	0.25.

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					THE ORIGINATION					
Model(s): Information t										
Outdoor: PUH				I	ndoor: PEFY-W50VMA2	2-A×6 units	S			
Outdoor heat exchanger				_						
Indoor heat exchanger of					1 .					
Indication if the heater				_			11 1			
	lared for	tne avera	ge neating s	ea	ason, parameters for the wa	armer and	colder n	eating	s sea	asons are
optional.	Cymbol	Value	I India	_	Itam	Crumb ol		Vol	110	Limit
Item	Symbol	Value	Unit	ı	Item Seasonal space heating	Symbol				Unit
Rated heating capacity	$P_{rated,h}$	22.50	kW	İ	energy efficiency	$\eta_{s,h} \\$		14	0	%
				İ	Declared coefficient of	nerform:	ance of	r gas	. 11	L tilization
Declared heating capa	-	-			efficiency / auxiliary en	-		_		
temperature 20 °C and o	outdoor te	mperatur	e T _j		outdoor temperatures T _i	23	•			Ü
$T_i = -7 ^{\circ}C$	Pdh	19.90	kW		T _i = - 7 °C	COP_d		3.04		%
$T_i = +2 ^{\circ}C$	Pdh	12.12	kW	ĺ	$T_i = +2 ^{\circ}C$	COP_d		2.69		0/0
$T_i = +7 ^{\circ}C$	Pdh	7.79	kW		$T_i = +7 ^{\circ}C$	COP_d		6.10		0/0
$T_i = +12 {}^{\circ}\text{C}$	Pdh	7.63	kW		$T_i = +12 ^{\circ}\text{C}$	COP_d		6.90		9/o
$T_j = bivalent$	Pdh	22.50	1-337		$T_j = bivalent$	COD		2.38		0/
temperature	run	22.30	kW		temperature	COP_d		2.30		%
T_j = operation limit	Pdh	12.10	kW		T_j = operation limit	COP_d		1.66		0/0
For air-to-water heat					For water-to-air heat					
pumps: $T_j = -15$ °C (if	Pdh	-	kW	İ	pumps: $T_j = -15$ °C (if	COP_d		-		%
$T_{OL} < -20 ^{\circ}C)$					$T_{OL} < -20 ^{\circ}\text{C}$					
	_				For water-to-air heat					
Bivalent temperature	$T_{\rm biv}$	-10.0	°C		1 1 1	T_{ol}		-		°C
					temperature					
5 1.1			_	İ						
Degradation co-	C_{dh}	0.25	-							
efficient heat pumps**				İ						
Power consumption in a	nodes oth	er than 'a	ctive mode'	ĺ	Supplementary heater					
	ъ		1	ĺ	Electric back-up					L
Off mode	P_{OFF}	0.000	kW	ĺ	heating capacity *	elbu		0.000	D	kW
Thermostat-off mode	P_{TO}	0.076	kW	ĺ	Type of energy input			•		
Crankcase heater mode	P	0.035	kW	ĺ	Standby mode	P_{SB}		0.064	1	kW
	1 CK	0.033	K VV	ĺ	Standby mode	1 SB		0.00-	•	K VV
Other items				L						
					For air-to-air heat					
Capacity control	variable				pumps: Nominal air	_	14400		m³/]	h
					flow rate, outdoor measured					
Sound power level,	1			H	For water-/brine-to-air					
Sound power level, indoor / outdoor		83.5	dB		heat pumps: Rated					
measured	LWA	05.0	uБ		brine or water flow	_	_		m³/]	h
Emissions of nitrogen					rate, outdoor heat	1				-
oxides (if applicable)	NO _x	-	mg/kWh		exchanger					
			kg CO _{2 ep}	Г						
GWP of the refrigerant		675	(100 years)							
	MITCHE	MOIH EL	·		DDOD ATION					
Contact details					RPORATION RIGERATION SYSTEMS	WODEC				
Contact details					na-City 640-8686,Japan	WOKKS				
** If C ₄ is not determin					ault degradation coefficient	of heat nu	ımns sha	ill he ().25	i.
_					s, the test result and perfo					
					mbination of indoor unit(s					
casis of the periorinane	or une c	Jacabor u	, ,, iii u C	. •		, 10001111110	<i>Oy</i>		1	

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				_	INFORMATION			
Model(s): Information t Outdoor: PUHY-M3					the information relates: EFY-W63VMA2-A×4 units, PEFY-W	/50VM	IA2-A	$\times 2$ units
Outdoor heat exchanger					22 1 11 00 11 11 2 11 11 11 11 11	20 111		2 411110
Indoor heat exchanger of								
Type: compressor drive								
if applicable: driver of o	compresso	or: electri	c motor					
Item	Symbol	Value	Unit		Item Symbol		Value	Unit
Rated cooling capacity	$P_{\text{rated,c}}$	40.00	kW		Seasonal space cooling $\eta_{s,c}$ energy efficiency		282	%
Declared cooling capa	city for	part loa	d at given		Declared energy efficiency ratio or ga	s utiliz	zation	efficiency ,
outdoor temperatures T_j bulb)					auxiliary energy factor for part letemperatures T _i			
$T_i = +35 ^{\circ}\text{C}$	Pdc	40.00	kW		$T_i = +35 ^{\circ}\text{C}$ EER _d		3.29	9/0
$T_j = +30 ^{\circ}\text{C}$	Pdc	29.47	kW		$T_i = +30 ^{\circ}\text{C}$ EER _d		4.98	%
$T_i = +25 ^{\circ}C$	Pdc	18.95	kW		$T_i = +25 ^{\circ}\text{C}$ EER _d		8.90	%
$T_j = +20 ^{\circ}C$	Pdc	10.97	kW		$T_j = +20 ^{\circ}\text{C}$ EER _d		16.13	9∕₀
Degradation co- efficient air conditioners**	C_d	0.25	-					
Power consumption in r	nodes oth	ner than 'a	ctive mode'					•
Off mode	P_{OFF}	0.000	kW		Crankcase heater mode P _{CK}		0.034	kW
Thermostat-off mode	P _{TO}	0.077	kW		Standby mode P_{SB}		0.054	
Thermostat-off mode	1 TO	0.077	- ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		Standby mode 1 SB		0.003	K VV
Other items		•	•	1				
Capacity control	variable				For air-to-air air conditioner: Nominal air flow rate, outdoor measured	5000	n	m³/h
Sound power level, outdoor	L_{WA}	80.5	dB					
if engine driven: Emissions of nitrogen oxides		-	mg/kWh fuel input GCV					
GWP of the refrigerant		675	kg CO _{2 ep} (100 years)					
Contact details	AIR-CO	NDITION	NING & RE	ΕF	RPORATION RIGERATION SYSTEMS WORKS na-City 640-8686,Japan			
** If C _d is not determine					ault degradation coefficient air condition	ners sh	all be	0.25.
					s, the test result and performance data			
information fold	1110	spiit u			s, are test result and performance data		2 0014	011 1110

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

Model(s): Information to identify the model(s) to which the information relates: Outdoor: PUHY-M350YNW-A1 (-BS) Indoor: PEFY-W63VMA2-A×4 units, PEFY-W50VMA2-A×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. Symbol Unit Value Unit Value Symbol Item Item Seasonal space heating 28.00 kW 137 Rated heating capacity Prated,h $\eta_{s,h}$ energy efficiency Declared coefficient of performance or gas utilization Declared heating capacity for part load at indoor efficiency / auxiliary energy factor for part load at given temperature 20 °C and outdoor temperature T_i outdoor temperatures Ti $T_i = -7$ °C Pdh 24.77 kW $T_i = -7$ °C COP_d 2.43 $T_j = +2 \, ^{\circ}C$ Pdh 15.08 kW $T_i = +2 \, {}^{\circ}C$ COP_d 3.10 0/0 $T_i = +7$ °C Pdh $T_i = +7$ °C 9.69 kW COP_d 5.11 % $T_i = +12 \,{}^{\circ}\text{C}$ Pdh 6.93 kW $T_i = +12 \,{}^{\circ}C$ 6.48 COP_d % $T_i = bivalent$ $T_i = bivalent$ Pdh 28.00 kW COP_d 2.82 % temperature temperature 15.04 T_i = operation limit Pdh kW T_i = operation limit COP_d 1.65 0/0 For air-to-water heat For water-to-air heat pumps: $T_i = -15$ °C (if Pdh pumps: $T_i = -15$ °C (if kW COP_d % $T_{OL} < -20 \, {}^{\circ}\text{C})$ $T_{OL} < -20$ °C) For water-to-air heat °C °C Bivalent temperature -10.0 pumps: Operation limit T_{ol} temperature efficient heat pumps** 0.25 Power consumption in modes other than 'active mode' Supplementary heater Electric back-up Off mode POFF 0.000 kW elbu 0.000 kW heating capacity * Thermostat-off mode P_{TO} 0.077 kW Type of energy input Crankcase heater mode P_{CK} 0.034 kW $P_{SB} \\$ kW0.065 Standby mode Other items For air-to-air heat pumps: Nominal air 15000 m³/h Capacity control variable flow rate, outdoor measured For water-/brine-to-air Sound power level 83.0 dB indoor outdoor L_{WA} pumps: Rated brine or water flow m³/h measured Emissions of nitrogen rate, outdoor heat NO, mg/kWh exchanger oxides (if applicable) kg CO₂ ep 675 GWP of the refrigerant (100 years) MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS Contact details 5-66, Tebira 6 Chome, Wakayama-City 640-8686, Japan ** If C_d is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25. Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer

or importer.

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

			CODCCI		THE CHANGE THE					
Model(s): Information t										
				I	PEFY-W71VMA2-A×5 u	nits, PEFY	-W50VI	MA2-	$A \times$	1 unit
Outdoor heat exchanger										
Indoor heat exchanger of										
Type: compressor drive										
if applicable: driver of o	Symbol				T4 (Symbol		Valu	0	I I:4
Item	Symbol	Value	Unit	1		-		v aru	- 1	Unit
Rated cooling capacity	$P_{\text{rated},c}$	45.00	kW		Seasonal space cooling energy efficiency	ls,c		260		%
Declared cooling capa	city for	part loa	d at given		Declared energy efficien	cy ratio or	gas utili:	zation	eff	iciency /
outdoor temperatures T _j	and indo	or 27°/19	°C (dry/wet		auxiliary energy factor	for part	load a	at giv	/en	outdoor
bulb)					temperatures T _j					
$T_j = +35 ^{\circ}\text{C}$	Pdc	45.00	kW		$T_j = +35 ^{\circ}\text{C}$	EER_d		3.07		0/0
$T_i = +30 ^{\circ}\text{C}$	Pdc	33.16	kW		$T_i = +30 {}^{\circ}\text{C}$	EER_d		4.79		0/o
$T_i = +25 ^{\circ}\text{C}$	Pdc	21.32	kW		$T_i = +25 ^{\circ}\text{C}$	EER_d		8.11		%
$T_j = +20 ^{\circ}\text{C}$	Pdc	14.58	kW		,	EER_d		13.55	5	0/o
Degradation co-			_							
	C_d	0.25	-							
conditioners**										
Power consumption in r	nodes oth	ner than 'a	ctive mode'							
Off mode	P_{OFF}		kW		Crankcase heater mode	P_{CK}		0.033	2	kW
Thermostat-off mode	P _{TO}	0.078	kW		Standby mode	P _{SB}		0.066		kW
Thermostat-off mode	1 TO	0.076	L VV		Standby mode	1 SB		0.000	U	K VV
Other items		•		L						
Capacity control	variable				For air-to-air ai conditioner: Nominal ai flow rate, outdoo measured	r _	16200	1	m³/h	1
Sound power level, outdoor	L_{WA}	82.5	dB							
if engine driven: Emissions of nitrogen oxides		-	mg/kWh fuel input GCV							
GWP of the refrigerant		675	kg CO _{2 ep} (100 years)							
					RPORATION			-		
Contact details					RIGERATION SYSTEMS	S WORKS				
					na-City 640-8686,Japan					
** If C _d is not determine	ed by mea	asurement	t then the de	efa	ult degradation coefficien	t air condit	ioners sh	nall be	0.2	5.

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

Model(s): Information to identify the model(s) to which the information relates: Outdoor: PUHY-M400YNW-A1 (-BS) Indoor: PEFY-W71VMA2-A×5 units, PEFY-W50VMA2-A×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. Symbol Unit Value Unit Value Symbol Item Item Seasonal space heating 35.80 kW 137 Rated heating capacity Prated,h $\eta_{s,h}$ energy efficiency Declared coefficient of performance or gas utilization Declared heating capacity for part load at indoor efficiency / auxiliary energy factor for part load at given temperature 20 °C and outdoor temperature T_i outdoor temperatures Ti $T_i = -7$ °C Pdh 31.67 kW $T_i = -7$ °C COP_d 2.50 $T_j = +2 \, ^{\circ}C$ Pdh 19.28 $T_i = +2 \, {}^{\circ}C$ COP_d 3.09 0/0 kW $T_i = +7$ °C Pdh 12.39 $T_i = +7$ °C 5.06 kW COP_d % $T_i = +12 \,{}^{\circ}\text{C}$ Pdh 9.37 kW $T_i = +12 \,{}^{\circ}C$ 6.27 COP_d % $T_i = bivalent$ $T_i = bivalent$ Pdh 35.80 kW COP_d 2.54 0/0 temperature temperature 19.24 T_i = operation limit Pdh kW T_i = operation limit COP_d 2.39 0/0 For air-to-water heat For water-to-air heat pumps: $T_i = -15$ °C (if Pdh pumps: $T_i = -15$ °C (if kW COP_d % $T_{OL} < -20 \, {}^{\circ}\text{C})$ $T_{OL} < -20$ °C) For water-to-air heat °C °C Bivalent temperature -10.0 pumps: Operation limit T_{ol} temperature efficient heat pumps** 0.25 Power consumption in modes other than 'active mode' Supplementary heater Electric back-up Off mode POFF 0.000 kW elbu 0.000 kW heating capacity * Thermostat-off mode P_{TO} 0.078 kW Type of energy input Crankcase heater mode P_{CK} 0.033 kW kW0.066 Standby mode P_{SB} Other items For air-to-air heat pumps: Nominal air 18900 m³/h Capacity control variable flow rate, outdoor measured For water-/brine-to-air Sound power level 86.0 dB indoor outdoor L_{WA} heat pumps: Rated m³/h measured brine or water flow Emissions of nitrogen rate, outdoor mg/kWh exchanger oxides (if applicable) kg CO₂ ep 675 GWP of the refrigerant (100 years) MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS Contact details 5-66, Tebira 6 Chome, Wakayama-City 640-8686, Japan ** 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

or importer.

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basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer

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

Model(s): Information to	o identify				the information relates:					
	-				EFY-W63VMA2-A×4 ur	nits, PEFY-	W50VN	/IA2-	$A \times$	4 units
Outdoor heat exchanger	of air co	nditioner:	air							
Indoor heat exchanger of	of air con	ditioner: a	ir							
Type: compressor drive										
if applicable: driver of c	_		e motor							
Item	Symbol	Value	Unit			Symbol		Valu	ıe	Unit
Rated cooling capacity	$P_{\text{rated,c}}$	50.00	kW		Seasonal space cooling energy efficiency	ls,c		281		%
Declared cooling capa	city for	part loa	d at given		Declared energy efficiend	cy ratio or	gas utili:	zatior	n eff	ficiency /
outdoor temperatures T _j	and indo	or 27°/19	°C (dry/wet		auxiliary energy factor	for part	load a	at giv	ven	outdoor
bulb)			_		temperatures T _j					-
$T_j = +35 ^{\circ}\text{C}$	Pdc	50.00	kW		$T_j = +35 ^{\circ}\text{C}$	EER_d		3.40	ı	%
$T_j = +30 ^{\circ}C$	Pdc	36.84	kW		$T_j = +30 ^{\circ}\text{C}$	EER_d		5.40		%
$T_j = +25$ °C	Pdc	23.68	kW		$T_j = +25 ^{\circ}\text{C}$	EER_d		10.8	7	9/0
$T_i = +20 ^{\circ}C$	Pdc	15.23	kW		$T_i = +20 ^{\circ}\text{C}$	EER_d		8.82		%
			1							
Degradation co-			1							
	C_d	0.25	-							
conditioners**										
Power consumption in r	nodes oth	ner than 'a	ctive mode'							
Off mode	P_{OFF}	0.000	kW		Crankcase heater mode	P_{CK}		0.03	3	kW
Thermostat-off mode	P_{TO}	0.082	kW		Standby mode	P_{SB}		0.06	6	kW
Other items										
Other Items	l				For air-to-air air	r				
Capacity control	variable				conditioner: Nominal air flow rate, outdoor measured	r -	16200		m³/.	h
Sound power level, outdoor	L_{WA}	83.5	dB							
if engine driven: Emissions of nitrogen oxides		-	mg/kWh fuel input GCV							
GWP of the refrigerant		675	kg CO _{2 ep} (100 years)							
Contact details	AIR-CC 5-66,Tel	NDITION bira 6 Cho	NING & RE ome,Wakaya	F	RPORATION RIGERATION SYSTEM! 1a-City 640-8686,Japan					
** If C _d is not determine	ed by me	asuremen	t then the de	fa	ult degradation coefficien	t air condit	ioners sł	all be	e 0.2	25.
					s, the test result and performation of indoor unit(s					
or importer.										

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

Model(s): Information to identify the model(s) to which the information relates: Outdoor: PUHY-M450YNW-A1 (-BS) Indoor: PEFY-W63VMA2-A×4 units, PEFY-W50VMA2-A×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. Symbol Value Unit Value Unit Symbol Item Item Seasonal space heating 37.00 kW 137 Rated heating capacity Prated,h $\eta_{s,h}$ energy efficiency Declared coefficient of performance or gas utilization Declared heating capacity for part load at indoor efficiency / auxiliary energy factor for part load at given temperature 20 °C and outdoor temperature T_i outdoor temperatures T_i $T_i = -7$ °C Pdh **32.73** kW $T_i = -7$ °C COP_d 2.20 $T_i = +2 \, {}^{\circ}C$ Pdh 19.92 kW $T_i = +2 \, {}^{\circ}C$ COP_d 2.90 0/0 $T_i = +7$ °C Pdh 12.81 kW $T_i = +7$ °C COP_d 6.75 % $T_i = +12 \,{}^{\circ}\text{C}$ Pdh 10.06 kW $T_i = +12 \,{}^{\circ}C$ 5.78 COP_d % $T_i = bivalent$ $T_i = bivalent$ Pdh 37.00 kW COP_d 2.58 0/0 temperature temperature 19.89 T_i = operation limit Pdh kW T_i = operation limit COP_d 2.28 0/0 For air-to-water heat For water-to-air heat pumps: $T_i = -15$ °C (if Pdh pumps: $T_i = -15$ °C (if kW COP_d % $T_{OL} < -20 \, {}^{\circ}\text{C})$ T_{OL} < -20 °C) For water-to-air heat °C °C Bivalent temperature -10.0 pumps: Operation limit T_{ol} temperature efficient heat pumps** 0.25 Power consumption in modes other than 'active mode' Supplementary heater Electric back-up Off mode P_{OFF} 0.000 kW elbu 0.000 kW heating capacity * Thermostat-off mode P_{TO} 0.082 kW Type of energy input Crankcase heater mode P_{CK} 0.033 kW kW0.066 Standby mode P_{SB} Other items For air-to-air heat pumps: Nominal air 18900 m³/h Capacity control variable flow rate, outdoor measured For water-/brine-to-air Sound power level 88.5 dB indoor outdoor L_{WA} heat pumps: Rated m³/h measured brine or water flow Emissions of nitrogen rate, outdoor mg/kWh exchanger oxides (if applicable) kg CO₂ ep 675 GWP of the refrigerant (100 years) MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS Contact details 5-66, Tebira 6 Chome, Wakayama-City 640-8686, Japan ** 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

or importer.

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basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer

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

PRODUCT INFORMATION(1)

		1 1	ODUCI		INFORMATION				
Model(s): Information t	-								
Outdoor: PUH				_I	ndoor: PEFY-W63VMA2	2-A×8 units	3		
Outdoor heat exchanger of Indoor heat exchanger of				_					
Type: compressor drive				_					
if applicable: driver of c									
Item	Symbol	Value	Unit	_	Item S	Symbol		Value	Unit
Item	Бушоог	v arac	Oint	1		-		V drue	Unit
Rated cooling capacity	$P_{\text{rated,c}}$	56.00	kW		Seasonal space cooling renergy efficiency	ls,c		272	%
Declared cooling capa	city for	part load	d at given	1	Declared energy efficience	cy ratio or	gas utili:	zation	efficiency /
outdoor temperatures T _j	and indo	or 27°/19°	C (dry/wet	l	auxiliary energy factor	for part	load a	t give	en outdoor
bulb)					temperatures T _j				
$T_i = +35 ^{\circ}\text{C}$	Pdc	56.00	kW		$T_i = +35 ^{\circ}\text{C}$	EER _d		3.16	9/0
$T_j = +30 ^{\circ}C$	Pdc	41.26	kW		*	EER _d		4.31	9/0
$T_i = +25 ^{\circ}\text{C}$	Pdc	26.53	kW		*	EER _d		8.61	9/0
$T_i = +20 ^{\circ}C$	Pdc	16.12	kW			EER _d		17.20	<u>0/0</u>
-,		10112	***		-,	u		17720	
Degradation co-									=
	C_d	0.25	_						
conditioners**	u								
Power consumption in r	nodes oth	er than 'a	ctive mode'	1					•
			-			_			
Off mode	P _{OFF}	0.000	kW		Crankcase heater mode	P _{CK}		0.034	
Thermostat-off mode	P_{TO}	0.081	kW		Standby mode	P_{SB}		0.065	kW
Other items	ı			Ł	Г :	ı	1		
					For air-to-air air				
Capacity control	variable				conditioner: Nominal air	-	17700	n	n³/h
					flow rate, outdoor measured				
Sound power level,	1			H	measured				
outdoor	L_{WA}	82.0	dB						
				H	1				
if engine driven:			mg/kWh						
Emissions of nitrogen	NO_x	-	fuel input						
oxides			GCV						
			kg CO _{2 ep}	Ī					
GWP of the refrigerant		675	(100 years)						
	MITSUF	BISHI EL	ECTRIC CO	O	RPORATION	1			
Contact details					RIGERATION SYSTEMS	WORKS			
	5-66,Teb	oira 6 Cho	me,Wakaya	ar	na-City 640-8686,Japan				
** If C _d is not determine					ault degradation coefficien	t air condit	oners sh	all be	0.25.
					rs, the test result and perfo				
		1			· I ·				

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)

	-			the information relates:								
Outdoor: PUHY-M500YNW-A1 (-BS) Indoor: PEFY-W63VMA2-A×8 units												
Outdoor heat exchanger												
Indoor heat exchanger of Indication if the heater is				ry haster: no								
				eason, parameters for the w	armer and cold	er heatir	no se	acone are				
optional.	iaica ioi	inc avera	ge nearing se	ason, parameters for the w	arrier and cold	ci iicatii	ig sc	asons arc				
Item	Symbol	Value	Unit	Item	Symbol	V:	alue	Unit				
				Seasonal space heating	Symbol							
Rated heating capacity	P _{rated,h}	37.50	kW	energy efficiency	$\eta_{s,h} \\$	1	37	%				
D 1 11 (·, c	. 1 1	1	Declared coefficient o	f performance	or g	as t	ıtilization				
Declared heating capa	-	-		efficiency / auxiliary en	nergy factor fo	or part	oad	at given				
temperature 20 °C and o	outdoor te	mperatur	e 1 _j	outdoor temperatures T _i								
$T_i = -7 ^{\circ}C$	Pdh	33.17	kW	$T_i = -7 ^{\circ}C$	COP_d	2.9	3	%				
$T_i = +2 ^{\circ}C$	Pdh	20.19	kW	$T_i = +2 ^{\circ}C$	COP_d	2.8	7	%				
$T_i = +7 ^{\circ}C$	Pdh	12.98	kW	$T_i = +7 ^{\circ}C$	COP_d	5.2	6	%				
$T_{i} = + 12 {}^{\circ}\text{C}$	Pdh	10.43	kW	$T_i = +12 {}^{\circ}\text{C}$	COP_d	5.7	2	%				
$T_j = bivalent$	Pdh	27.50	1-337	$T_j = bivalent$	COP	2.5	n	0/				
temperature	Puli	37.50	kW	temperature	COP_d	2.5	,	%				
T_j = operation limit	Pdh	20.13	kW	T_j = operation limit	COP_d	2.3	8	%				
For air-to-water heat				For water-to-air heat								
pumps: $T_j = -15$ °C (if	Pdh	-	kW	pumps: $T_j = -15$ °C (if	COP_d	-		%				
T_{OL} < - 20 °C)				$T_{OL} < -20$ °C)								
				For water-to-air heat								
Bivalent temperature	$T_{\rm biv}$	-10.0	°C	pumps: Operation limit	T_{ol}	-		°C				
				temperature								
Degradation co-	C_{dh}	0.25										
efficient heat pumps**	dh	0.23										
Power consumption in r	nodes oth	er than 'a	ctive mode'	Supplementary heater								
F			1			_		7				
Off mode	P_{OFF}	0.000	kW	Electric back-up	elbu	0.0	00	kW				
TC1	D	0.001	1 337	heating capacity *								
Thermostat-off mode	P_{TO}	0.081	kW	Type of energy input								
Crankcase heater mode	P_{CK}	0.034	kW	Standby mode	P_{SB}	0.0	65	kW				
Other items												
Other items	l			For air-to-air heat			1					
				pumps: Nominal air								
Capacity control	variable			flow rate, outdoor	- 177	700	m ³ /	/h				
				measured								
Sound power level,				For water-/brine-to-air			1					
indoor / outdoor		85.5	dB	heat pumps: Rated								
measured				brine or water flow	- -		m ³ /	/h				
Emissions of nitrogen	NO_x		/1-33/1-	rate, outdoor heat								
oxides (if applicable)	NO_x	-	mg/kWh	exchanger								
			kg CO _{2 ep}									
GWP of the refrigerant		675	(100 years)									
	MITCHE	iciii Ei	ECTRIC CO	I DRPORATION								
Contact details				FRIGERATION SYSTEMS	S WODKS							
Contact details				ma-City 640-8686,Japan	WORKS							
** If C, is not determine				fault degradation coefficien	t of heat number	s shall be	0.2	5				
-				ers, the test result and perfo								
				ombination of indoor unit(s								
casis of the periorifiance	or une	u	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	omenium or muoor unit(,, 1000mminut	- 0, 1110	mul	ucture1				

or importer.

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

			CODCO						
Model(s): Information t	-			ch					
Outdoor: PUH					Indoor: PEFY-W50VM.	A2-A×4 un	its		
Outdoor heat exchanger									
Indoor heat exchanger of									
Type: compressor drive									
if applicable: driver of o					Τ. (Sl 1		X7 - 1	TT '
Item	Symbol	Value	Unit	1		Symbol		Value	Unit
Rated cooling capacity	$P_{\text{rated,c}}$	22.40	kW		Seasonal space cooling energy efficiency	ls,c		310	%
Declared cooling capa	city for	part loa	d at given	1	Declared energy efficien	cy ratio or	gas utili:	zation	efficiency /
outdoor temperatures T	and indoo	or 27°/19	°C (dry/wet		auxiliary energy factor	for part	load a	at giv	en outdooi
bulb)					temperatures T _j				
$T_i = +35 ^{\circ}\text{C}$	Pdc	22.40	kW		$T_i = +35 ^{\circ}\text{C}$	EER_d		4.48	9/0
$T_i = +30 {}^{\circ}\text{C}$	Pdc	16.51	kW		$T_i = +30 ^{\circ}\text{C}$	EER_d		6.78	%
$T_i = +25 ^{\circ}C$	Pdc	10.61	kW		3	EER_d		11.30	<u>%</u>
$T_i = +20 ^{\circ}\text{C}$	Pdc	10.69	kW		3	EER_d		12.50	
1, , 20 0	1 00	10.05	- "		1	u		12.00	——/ °
Degradation co-			1						
_	C_d	0.25	_						
conditioners**	u								
D		41 ! .	-4: 4-1	1					
Power consumption in a	nodes otne	er than a	ctive mode						
Off mode	P_{OFF}	0.000	kW		Crankcase heater mode	P_{CK}		0.035	kW
Thermostat-off mode	P_{TO}	0.072	kW		Standby mode	P_{SB}		0.064	kW
			1						
Other items									
					For air-to-air ai				
Capacity control	variable				conditioner: Nominal ai	-	10200	r	m³/h
					flow rate, outdoo	r			
C 1 1 1	1		1	┡	measured				
Sound power level, outdoor	L_{WA}	75.0	dB						
outdoor				t					
if engine driven:			mg/kWh						
Emissions of nitrogen	NO_x	•	fuel input	1					
oxides			GCV						
			kg CO _{2 ep}	Ì					
GWP of the refrigerant		675	(100 years)						
	MITCLID	ICHI EI			RPORATION	1	<u> </u>		
Contact details					RPORATION RIGERATION SYSTEM:	S WODE			
Contact details					rigera fion 5451em na-City 640-8686,Japan	CANOW 6			
** If C is not determin					ult degradation coefficien	t air condit	ioners st	all be	0.25
ii C _d is not determin	ca by mea	surcinell	i men me de	11ء	iun degradation coefficien	i an condit	ioners si	ian be	0.43.

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

Model(s): Information to identify the model(s) to which the information relates:											
Outdoor: PUH					Indoor: PEFY-W50VMA	A2-A×4 uni	its				
Outdoor heat exchanger											
Indoor heat exchanger of				_	ry hootom mo						
Indication if the heater				_	ason, parameters for the w	ormor and	colder h	antino	T CO.	acone ara	
optional.	iared for	me avera	ge neamig s	ez	ason, parameters for the w	armer and (colder in	eaung	g sea	asons are	
Item	Symbol	Value	Unit	_	Item	Symbol		Val	110	Unit	
				l	Seasonal space heating	Symbol		v ai	uc	Omt	
Rated heating capacity	P _{rated,h}	22.50	kW		energy efficiency	$\eta_{s,h} \\$		14	8	%	
Declared beating some	oitre for	mont lood	at indoor		Declared coefficient of	f performa	ance of	gas	s u	tilization	
Declared heating capa temperature 20 °C and of	-	-			efficiency / auxiliary er	nergy facto	r for p	art lo	oad	at given	
			,		outdoor temperatures T _j					Ī	
$T_j = -7 ^{\circ}C$	Pdh		kW		$T_j = -7 ^{\circ}C$	COP_d		2.68		%	
$T_j = + 2 ^{\circ}C$	Pdh	12.12	kW	ĺ	$T_j = +2 ^{\circ}C$	COP_d		3.63		0/0	
$T_j = +7 ^{\circ}C$	Pdh	7.79	kW	ĺ	$T_j = +7 ^{\circ}C$	COP_d		4.90		0/0	
$T_j = +12 ^{\circ}C$	Pdh	6.24	kW		$T_j = + 12 ^{\circ}\text{C}$	COP_d		5.47		0/o	
$T_j = bivalent$	Pdh	22.50	kW		$T_j = bivalent$	COP_d		2.28		9/o	
temperature	D.11		4		temperature			1.5			
T_j = operation limit	Pdh	12.10	kW	ĺ	T_j = operation limit	COP_d		1.65		%	
For air-to-water heat			. ***	ĺ	For water-to-air heat	COD					
pumps: $T_j = -15$ °C (if	Pdh	-	kW		pumps: $T_j = -15$ °C (if	COP_d		-		%	
T_{OL} < - 20 °C)			1		$T_{OL} < -20 ^{\circ}\text{C}$						
D: 1	т	10.0	00		For water-to-air heat	т				00	
Bivalent temperature	$T_{\rm biv}$	-10.0	°C	ĺ	pumps: Operation limit	T_{ol}		-		°C	
					temperature						
Degradation co-			_								
efficient heat pumps**	C_{dh}	0.25	-								
errierent neut pumps								l			
Power consumption in a	nodes oth	er than 'a	ctive mode'	ĺ	Supplementary heater						
OCC 1	D	0.000], ,,,	ĺ	Electric back-up	11		0.00	Λ	1 337	
Off mode	P_{OFF}	0.000	kW	ĺ	heating capacity *	elbu		0.00	U	kW	
Thermostat-off mode	P_{TO}	0.072	kW		Type of energy input						
Crankcase heater mode	P_{CK}	0.035	kW		Standby mode	P_{SB}		0.06	4	kW	
Other items											
0 00000 0000000				ĺ	For air-to-air heat						
				ĺ	pumps: Nominal air		40000		2.0		
Capacity control	variable			ĺ	flow rate, outdoor	-	10200		m ³ /]	n	
					measured						
Sound power level,					For water-/brine-to-air						
indoor / outdoor	L_{WA}	78.0	dB	ĺ	heat pumps: Rated						
measured				ĺ	brine or water flow	-	-		m ³ /	h	
Emissions of nitrogen	NO	_	mg/kWh	ĺ	rate, outdoor heat						
oxides (if applicable)	TTO _X		mg/K vv n	L	exchanger						
CWD -f 4h - m-fri m-t		(75	kg CO _{2 ep}	ĺ							
GWP of the refrigerant		675	(100 years)	ĺ							
	MITSUF	BISHI EL	ECTRIC CO	JI OI	RPORATION	1					
Contact details					RIGERATION SYSTEMS	WORKS					
					na-City 640-8686,Japan						
** If C _d is not determin					nult degradation coefficien	t of heat pu	mps sha	ll be	0,25	i.	
					s, the test result and perfo						
basis of the performance	e of the o	outdoor u	nit, with a c	o	mbination of indoor unit(s) recomme	nded by	the r	nan	ufacturer	

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

PRODUCT INFORMATION(1)

					NICKWIATION					
Model(s): Information to Outdoor: PUH	•			ch	the information relates: Indoor: PEFY-W63VMA	2-4×4 115	ite			
Outdoor heat exchanger					IIIUOOI . FEF I - W 03 V IVIA	Z-A×4 um	its			
Indoor heat exchanger of										
Type: compressor drive										
if applicable: driver of c										
Item	Symbol	Value	Unit		Item S	ymbol		Valu	e	Unit
Rated cooling capacity	$P_{\text{rated,c}}$	28.00	kW		Seasonal space cooling η, energy efficiency	s,c		268		%
Declared cooling capa outdoor temperatures T_j bulb)					Declared energy efficienc auxiliary energy factor temperatures T _j					
$T_j = +35 ^{\circ}\text{C}$	Pdc	28.00	kW		J	ER_d		3.83		0/o
$T_j = +30 ^{\circ}C$	Pdc	20.63	kW		$T_j = +30 ^{\circ}\text{C}$	ER_d		5.95		0/o
$T_j = +25$ °C	Pdc	13.26	kW		$T_j = +25 ^{\circ}\text{C}$	ER_d		9.37		9/o
$T_j = +20 ^{\circ}C$	Pdc	10.16	kW		$T_j = +20 ^{\circ}\text{C}$	ER_d		9.17		<u>0/o</u>
Degradation co- efficient air conditioners**	C_d	0.25	-							
Power consumption in r	nodes oth	er than 'a	ctive mode'							
Off mode Thermostat-off mode	$\begin{array}{c} P_{OFF} \\ P_{TO} \end{array}$	0.000 0.072	kW kW		Crankcase heater mode Standby mode	P _{CK} P _{SB}		0.035		kW kW
Other items	ī				D		ı	-		
Capacity control	variable				For air-to-air air conditioner: Nominal air flow rate, outdoor measured	1	11100		m³/h	1
Sound power level, outdoor	L_{WA}	78.0	dB							
if engine driven: Emissions of nitrogen oxides		-	mg/kWh fuel input GCV							
Emissions of nitrogen oxides (if applicable)	NO _x	-	mg/kWh							
GWP of the refrigerant		675	kg CO _{2 ep} (100 years)							
Contact details	AIR-CO 5-66,Teb	NDITION oira 6 Cho	NING & RE ome,Wakaya	F an	RPORATION RIGERATION SYSTEMS na-City 640-8686, Japan			- all !-	. 0.2	5
C_d is not determine	eu by mea	asurement	i inen the de	:12	ult degradation coefficient	air conditi	ioners sh	iaii be	: U.2	J.

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

Model(s): Information t	o identify				the information relates:						
	Model(s): Information to identify the model(s) to which the information relates: Outdoor: PUHY-EM250YNW-A1 (-BS) Indoor: PEFY-W63VMA2-A×4 units										
Outdoor heat exchanger					1110001 1 121 1 1 1 100 1 1111						
Indoor heat exchanger of											
Indication if the heater i				ar	y heater: no						
					ason, parameters for the w	armer and	colder h	eating	g sea	asons are	
optional.											
Item	Symbol	Value	Unit		Item	Symbol		Val	lue	Unit	
Rated heating capacity	P11	22.50	kW		Seasonal space heating	n .		14	l1	%	
Rated heating capacity	rated,h	22.50	K VV		energy efficiency	$\eta_{s,h}$					
Declared heating capa	city for	nart load	l at indoor		Declared coefficient of	-		_			
temperature 20 °C and o					efficiency / auxiliary en	nergy facto	or for p	art lo	oad	at given	
			-		outdoor temperatures T _j					1	
$T_j = -7$ °C	Pdh		kW		$T_j = -7 ^{\circ}C$	COP_d		2.73		%	
$T_j = +2 ^{\circ}C$	Pdh	_	kW		$T_j = +2 ^{\circ}C$	COP_d		3.32		9/0	
$T_j = +7$ °C	Pdh	7.79	kW		$T_j = +7$ °C	COP_d		4.72		%	
$T_j = +12 ^{\circ}\text{C}$	Pdh	6.24	kW		$T_j = +12 ^{\circ}\text{C}$	COP_d		5.51		%	
$T_j = bivalent$	Pdh	22.50	kW		$T_j = bivalent$	COP_d		2.90		%	
temperature	Dalle	12 10	1-337		temperature	COD		2 25	,	0/	
T_j = operation limit For air-to-water heat	Pdh	12.10	kW		T_j = operation limit For water-to-air heat	COP_d		2.35		%	
pumps: $T_i = -15$ °C (if			kW		pumps: $T_i = -15$ °C (if	COP				0/	
$T_{OL} < -20 ^{\circ}\text{C}$	ruii	-	K W		$T_{OL} < -20 ^{\circ}\text{C}$	COP_d		ļ -		%	
1 _{OL} < - 20 C)		-	1		For water-to-air heat						
Bivalent temperature	T_{biv}	-10.0	°C		pumps: Operation limit	T_{ol}		L		°C	
Bivaient temperature	1 biv	-10.0			temperature	1 ol		ľ			
			1		temperature						
Degradation co-	_										
efficient heat pumps**	C_{dh}	0.25	-								
	1 4	.1 1	. 11		C 1 4 1 4						
Power consumption in r	nodes oth	er tnan a	ctive mode		Supplementary heater						
Off mode	P_{OFF}	0.000	kW		Electric back-up	elbu		0.00	0	kW	
			K VV		heating capacity *	CIDU		0.00	<u> </u>	K VV	
Thermostat-off mode	P_{TO}	0.072	kW		Type of energy input						
Crankcase heater mode	P_{CK}	0.035	kW		Standby mode	P_{SB}		0.06	4	kW	
					,	SB					
Other items	1				T	T	1				
					For air-to-air heat						
Capacity control	variable				pumps: Nominal air flow rate, outdoor	-	11100		m ³ /	h	
					measured						
Sound power level,					For water-/brine-to-air						
indoor / outdoor		80.0	dB		heat pumps: Rated						
measured					brine or water flow	-	_		m ³ /	h	
Emissions of nitrogen	NO		4 ***		rate, outdoor heat						
oxides (if applicable)	NO_x	-	mg/kWh		exchanger						
			kg CO2 ep								
GWP of the refrigerant		675	(100 years)								
	MITCHT	пен п	-	L	<u>l</u> RPORATION	l	<u> </u>				
Contact details					RPORATION RIGERATION SYSTEMS	WODKE					
Contact uctans					na-City 640-8686,Japan	CANOW					
** If C ₄ is not determine					ault degradation coefficient	t of heat pu	ımns sha	ıll be	0.25	5.	
					s, the test result and perfo						
		-			mbination of indoor unit(s		-				
1			,	-		,					

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or importer.

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

			CODCCI		THE ORDINATION				
Model(s): Information t	-			ch					
Outdoor: PUH					Indoor: PEFY-W50VM	$A2-A\times6$ uni	its		
Outdoor heat exchanger									
Indoor heat exchanger of									
Type: compressor drive									
if applicable: driver of o					T. (\l1		X 7 - 1	TT 1.
Item	Symbol	Value	Unit	1		Symbol		Value	Unit
Rated cooling capacity	$P_{\text{rated},c}$	33.50	kW		Seasonal space cooling energy efficiency	ls,c		287	%
Declared cooling capa	acity for	part loa	d at given	1	Declared energy efficien	cy ratio or	gas utili:	zation	efficiency /
outdoor temperatures T	and indoo	or 27º/19	°C (dry/wet		auxiliary energy factor	for part	load a	at give	en outdoor
bulb)					temperatures T _j				
$T_i = +35 ^{\circ}\text{C}$	Pdc	33.50	kW		$T_i = +35 ^{\circ}\text{C}$	EER_d		3.95	%
$T_i = +30 {}^{\circ}\text{C}$	Pdc	24.68	kW		$T_i = +30 ^{\circ}\text{C}$	EER _d		5.99	%
$T_i = +25 ^{\circ}C$	Pdc	15.87	kW		3	EER_d		10.34	%
$T_i = +20 ^{\circ}C$	Pdc	11.67	kW		3	EER _d		9.79	9/0
1, , 20 0	1 00	11.07	- "		1	u		,,,,	- '
Degradation co-			1						
_	\cdot C _d	0.25	_						
conditioners**	u								
Power consumption in 1	nodes othe	or than 'a	ctive mode!						
r ower consumption in i	nodes our	== uiaii a	-						
Off mode	P_{OFF}	0.000	kW		Crankcase heater mode	P_{CK}		0.035	kW
Thermostat-off mode	P_{TO}	0.076	kW		Standby mode	P_{SB}		0.064	kW
Other items						1			
Capacity control	variable				For air-to-air ai conditioner: Nominal ai flow rate, outdoo measured	r _	12000	n	n³/h
Sound power level, outdoor	L _{WA}	80.0	dB						
if engine driven: Emissions of nitrogen oxides			mg/kWh fuel input GCV						
GWP of the refrigerant		675	kg CO _{2 ep} (100 years)						-
					RPORATION		_		
Contact details					RIGERATION SYSTEMS	S WORKS			
					na-City 640-8686,Japan				
** If C _d is not determin	ed by mea	suremen	t then the de	efa	ult degradation coefficien	t air condit	ioners sh	nall be	0.25.

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

					NFORMATION ⁽¹⁾					
Model(s): Information to	-									
Outdoor : PUH				_	Indoor: PEFY-W50VMA	A2-A×6 un	its			
Outdoor heat exchanger				_						
Indoor heat exchanger of				_	1 .					
Indication if the heater i							11 1			
	lared for	the avera	ge heating s	ea	ason, parameters for the w	armer and	colder h	eating	g sea	isons are
optional.	C 1 1	37.1	TT '		T .	0 1 1		37.1		TT **
Item	Symbol	Value	Unit	1	Item	Symbol		vai	ue	Unit
Rated heating capacity	P _{rated,h}	22.50	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$		14		%
Declared heating capa	city for	part load	at indoor		Declared coefficient of	-		_		
temperature 20 °C and o	-	-			efficiency / auxiliary en outdoor temperatures T_j	ergy facto	or for p	art lo	oad	at givei
$T_j = -7 ^{\circ}C$	Pdh	19.90	kW		$T_j = -7 ^{\circ}C$	COP_d		2.63		0/o
$T_j = +2 ^{\circ}C$	Pdh	12.12	kW		$T_j = +2 ^{\circ}C$	COP_d		3.25		0/0
$T_i = +7 ^{\circ}C$	Pdh	7.79	kW		$T_i = +7 ^{\circ}C$	COP_d		5.03		0/0
$T_{i} = +12 {}^{\circ}\text{C}$	Pdh	7.02	kW		$T_i = +12 {}^{\circ}\text{C}$	COP_d		6.23		0/o
$T_i = bivalent$	Pdh	22.50	1-337		$T_i = bivalent$	COP_d		2.35		0/
temperature	ruii	22.50	kW		temperature	COP_d		2.33		0/o
T_j = operation limit For air-to-water heat	Pdh	12.10	kW		T_j = operation limit For water-to-air heat	COP_d		1.64		0/0
pumps: $T_i = -15$ °C (if		_	kW		pumps: $T_i = -15$ °C (if	COP_d		_		%
$T_{OL} < -20 ^{\circ}\text{C}$	1 011		K VV		$T_{OL} < -20$ °C)	cora				70
10L (20 C)			1		For water-to-air heat					
Bivalent temperature	T_{biv}	-10.0	°C		pumps: Operation limit	T_{ol}		L		°C
Bivaient temperature	* biv	-10.0			temperature	• ol				C
			1		temperature					
Degradation co- efficient heat pumps**	C_{dh}	0.25	- -							
		41 !-	-4: 1-1		C1			1		
Power consumption in r	nodes oth	ner than 'a	ctive mode		Supplementary heater					
Off mode	$\mathbf{P}_{\mathrm{OFF}}$	0.000	kW		Electric back-up heating capacity *	elbu		0.00	0	kW
Thermostat-off mode	P_{TO}	0.076	kW		Type of energy input					
Crankcase heater mode		0.035	kW		Standby mode	P_{SB}		0.06	4	kW
Other items			I	1						
	1				For air-to-air heat					
Capacity control	variable				pumps: Nominal air flow rate, outdoor measured	-	14400		m³/l	1
Sound power level,					For water-/brine-to-air					
indoor / outdoor	L_{WA}	83.5	dB		heat pumps: Rated					
measured					brine or water flow	-	-		m³/l	1
Emissions of nitrogen oxides (if applicable)	NO _x	-	mg/kWh		rate, outdoor heat exchanger					
GWP of the refrigerant		675	kg CO _{2 ep} (100 years)							
	MITSUI	BISHI EL	ECTRIC CO	OI	RPORATION	1				
Contact details					RIGERATION SYSTEMS	WORKS				
					na-City 640-8686,Japan	_				
** If C _d is not determine					ult degradation coefficien	t of heat pu	ımps sha	all be	0,25	
					s, the test result and perfo					
					mbination of indoor unit(s					
or importor	`		,			,				

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

			CODCCI	-						
Model(s): Information t										
				: :	PEFY-W63VMA2-A×4	ınits, PEFY	-W50V	MA2-	-A×	2 units
Outdoor heat exchanger										
Indoor heat exchanger of										
Type: compressor drive										
if applicable: driver of o					T. (Primah ol		Valu		TT '.
Item	Symbol	Value	Unit	1		Symbol		Valu	e	Unit
Rated cooling capacity	$P_{\text{rated},c}$	40.00	kW		Seasonal space cooling energy efficiency	ls,c		286		%
Declared cooling capa	city for	part loa	d at given		Declared energy efficien	cy ratio or	gas utili:	zation	eff	iciency /
outdoor temperatures T _j	and indo	or 27°/19	°C (dry/wet		auxiliary energy factor	for part	load a	at giv	/en	outdoor
bulb)					temperatures T _j					
$T_j = +35 ^{\circ}\text{C}$	Pdc	40.00	kW		$T_j = +35 ^{\circ}\text{C}$	EER_d		3.54		0/0
$T_i = +30$ °C	Pdc	29.47	kW		$T_i = +30 {}^{\circ}\text{C}$	EER_d		5.66		%
$T_i = +25 ^{\circ}\text{C}$	Pdc	18.95	kW		$T_i = +25 ^{\circ}\text{C}$	EER_d		9.94		%
$T_j = +20 ^{\circ}C$	Pdc	11.26	kW		$T_j = +20 ^{\circ}\text{C}$	EER_d		10.87	7	0/0
Degradation co-			_							
_	C_d	0.25	-							
conditioners**										
Power consumption in r	nodes oth	ner than 'a	ctive mode'							
Off mode	P_{OFF}		kW		Crankcase heater mode	P_{CK}		0.034	1	kW
Thermostat-off mode	P _{TO}	0.000	kW		Standby mode	P _{SB}		0.065		kW
Thermostat-off mode	1 TO	0.077	L VV		Standby mode	1 SB		0.00.	3	K VV
Other items	•	•				1		1		
Capacity control	variable				For air-to-air ai conditioner: Nominal ai flow rate, outdoo measured	r _	15000		m³/l	1
Sound power level, outdoor	L_{WA}	80.5	dB							
if engine driven: Emissions of nitrogen oxides		-	mg/kWh fuel input GCV							
GWP of the refrigerant		675	kg CO _{2 ep} (100 years)							
					RPORATION					
Contact details					RIGERATION SYSTEM:	S WORKS				
					na-City 640-8686,Japan					
** If C _d is not determine	ed by mea	asurement	t then the de	efa	ult degradation coefficien	t air condit	ioners sł	nall be	0.2	25.

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

Model(s): Information to identify the model(s) to which the information relates: Outdoor: PUHY-EM350YNW-A1 (-BS) Indoor: PEFY-W63VMA2-A×4 units, PEFY-W50VMA2-A×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. Symbol Unit Value Unit Value Symbol Item Item Seasonal space heating Rated heating capacity Prated,h 28.00 kW 137 $\eta_{s,h}$ energy efficiency Declared coefficient of performance or gas utilization Declared heating capacity for part load at indoor efficiency / auxiliary energy factor for part load at given temperature 20 °C and outdoor temperature T_i outdoor temperatures Ti $T_i = -7$ °C Pdh 24.77 kW $T_i = -7$ °C COP_d 2.41 $T_i = +2 \, {}^{\circ}C$ Pdh 15.08 $T_i = +2 \, {}^{\circ}C$ COP_d 3.15 0/0 kW $T_i = +7$ °C Pdh 5.07 9.69 kW $T_i = +7$ °C COP_d % $T_i = +12 \,{}^{\circ}\text{C}$ Pdh 6.93 kW $T_i = +12 \,{}^{\circ}C$ 6.04 COP_d % $T_i = bivalent$ $T_i = bivalent$ Pdh 28.00 kW COP_d 2.73 % temperature temperature 15.04 T_i = operation limit Pdh kW T_i = operation limit COP_d 1.62 0/0 For air-to-water heat For water-to-air heat pumps: $T_i = -15$ °C (if Pdh pumps: $T_i = -15$ °C (if kW COP_d % $T_{OL} < -20 \, {}^{\circ}\text{C})$ $T_{OL} < -20$ °C) For water-to-air heat °C °C Bivalent temperature -10.0 pumps: Operation limit T_{ol} temperature efficient heat pumps** 0.25 Power consumption in modes other than 'active mode' Supplementary heater Electric back-up Off mode POFF 0.000 kW elbu 0.000 kW heating capacity * Thermostat-off mode P_{TO} 0.077 kW Type of energy input Crankcase heater mode P_{CK} 0.034 kW kW 0.065 Standby mode P_{SB} Other items For air-to-air heat pumps: Nominal air 15000 m³/h Capacity control variable flow rate, outdoor measured For water-/brine-to-air Sound power level 82.5 dB indoor outdoor L_{WA} heat pumps: Rated m³/h measured brine or water flow Emissions of nitrogen rate, outdoor heat NO, mg/kWh exchanger oxides (if applicable) kg CO₂ ep 675 GWP of the refrigerant (100 years) MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS Contact details 5-66, Tebira 6 Chome, Wakayama-City 640-8686, Japan ** 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

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basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer

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

			ODCCI	-					
Model(s): Information t									
				:	PEFY-W71VMA2-A×5 u	nits, PEFY	-W50V	MA2- <i>A</i>	4×1 unit
Outdoor heat exchanger									
Indoor heat exchanger of Type: compressor drive									
if applicable: driver of c									
Item	Symbol	Value	Unit		Itam Si	ymbol		Value	Unit
iteiii	Symbol	v aruc	Ullit	i				v aruc	I Ollit
Rated cooling capacity	$P_{\text{rated,c}}$	45.00	kW		Seasonal space cooling η_s energy efficiency	,c		293	%
Declared cooling capa	city for	part load	d at given		Declared energy efficiency	y ratio or g	gas utiliz	zation e	efficiency /
outdoor temperatures T _j	and indo	or 27°/19°	°C (dry/wet		auxiliary energy factor	for part	load a	t give	n outdoor
bulb)			_		temperatures T _j				
$T_j = +35 ^{\circ}\text{C}$	Pdc	45.00	kW		$T_j = +35 ^{\circ}\text{C}$ El	ER_d		3.51	9/0
$T_{i} = +30 {}^{\circ}\text{C}$	Pdc	33.16	kW		$T_i = +30 ^{\circ}\text{C}$	ER_d		5.49	%
$T_i = +25 {}^{\circ}\text{C}$	Pdc	21.32	kW		$T_i = +25 ^{\circ}\text{C}$ El	ER_d		9.23	9/0
$T_j = +20 ^{\circ}\text{C}$	Pdc	14.98	kW		*	ER_d		14.87	9/0
5 1									_
Degradation co-		0.25							
	C_d	0.25	-						
conditioners**		J							
Power consumption in r	nodes oth	er than 'a	ctive mode'						
Off mode	P_{OFF}	0.000	kW		Crankcase heater mode	P_{CK}		0.033	kW
Thermostat-off mode	P _{TO}	0.078	kW			P_{SB}		0.066	kW
Thermostat off mode	- 10	0.070	K VV		Standoy mode	- SB		0.000	K **
Other items	_								
Capacity control	variable				For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	16200	m	n³/h
Sound power level, outdoor	L _{WA}	82.5	dB						
if engine driven: Emissions of nitrogen oxides		-	mg/kWh fuel input GCV						
GWP of the refrigerant		675	kg CO _{2 ep} (100 years)						
	MITSUE	BISHI EL	ECTRIC CO	Ol	RPORATION			-	
Contact details	AIR-CO	NDITION	NING & RE	F	RIGERATION SYSTEMS	WORKS			
					na-City 640-8686,Japan				
** If C _d is not determine	ed by mea	surement	then the de	fa	ult degradation coefficient	air conditi	oners sh	all be (0.25.
XX71					.1 1				

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

Model(s): Information to identify the model(s) to which the information relates: Outdoor: PUHY-EM400YNW-A1 (-BS) Indoor: PEFY-W71VMA2-A×5 units, PEFY-W50VMA2-A×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. Symbol Unit Value Unit Value Item Item Symbol Seasonal space heating Rated heating capacity Prated,h 37.00 kW 137 $\eta_{s,h}$ energy efficiency Declared coefficient of performance or gas utilization Declared heating capacity for part load at indoor efficiency / auxiliary energy factor for part load at given temperature 20 °C and outdoor temperature T_i outdoor temperatures Ti $T_i = -7$ °C Pdh 32.73 kW $T_i = -7$ °C COP_d 2.39 $T_i = +2 \, ^{\circ}C$ Pdh 19.92 $T_i = +2 \, {}^{\circ}C$ COP_d 3.10 0/0 kW $T_i = +7$ °C Pdh 12.81 kW $T_i = +7$ °C COP_d 5.31 % $T_i = +12 \,{}^{\circ}\text{C}$ Pdh 9.18 kW $T_i = +12 \,{}^{\circ}C$ 5.80 COP_d % $T_i = bivalent$ $T_i = bivalent$ Pdh 37.00 kW COP_d 2.71 % temperature temperature 19.24 T_i = operation limit Pdh kW T_i = operation limit COP_d 2.38 0/0 For air-to-water heat For water-to-air heat pumps: $T_i = -15$ °C (if Pdh pumps: $T_i = -15$ °C (if kW COP_d % $T_{OL} < -20 \, {}^{\circ}\text{C})$ T_{OL} < -20 °C) For water-to-air heat °C °C Bivalent temperature -10.0 pumps: Operation limit T_{ol} temperature efficient heat pumps** 0.25 Power consumption in modes other than 'active mode' Supplementary heater Electric back-up Off mode POFF 0.000 kW elbu 0.000 kW heating capacity * Thermostat-off mode P_{TO} 0.078 kW Type of energy input 0.033 kW kW0.066 Crankcase heater mode P_{CK} Standby mode P_{SB} Other items For air-to-air heat pumps: Nominal air 18900 m³/h Capacity control variable flow rate, outdoor measured For water-/brine-to-air Sound power level 84.5 dB indoor outdoor L_{WA} pumps: Rated m³/h measured brine or water flow Emissions of nitrogen rate, outdoor mg/kWh exchanger oxides (if applicable) kg CO₂ ep 675 GWP of the refrigerant (100 years) MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS Contact details 5-66, Tebira 6 Chome, Wakayama-City 640-8686, Japan ** 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

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

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Model(s): Information to						:4- DEES	WEOV.	MAG	A > / 1 · ·
Outdoor : PUHY-EM ² Outdoor heat exchanger				: .	PEFY-W63VMA2-A×4 un	its, PEFY	-W5UV	WIA2-1	4×4 units
Indoor heat exchanger of									
Type: compressor drive									
if applicable: driver of c									
Item	Symbol		Unit		Item Sy	mbol		Value	Unit
Rated cooling capacity	-	50.00	kW		Seasonal space cooling energy efficiency η_s			300	%
Declared cooling capa	city for	part loa	d at given		Declared energy efficiency	ratio or g	gas utili:	zation	efficiency
outdoor temperatures T_j bulb)	-	-	-		auxiliary energy factor temperatures T _j	-	-		_
$T_i = +35 ^{\circ}C$	Pdc	50.00	kW		$T_i = +35 ^{\circ}\text{C}$ EF	ER_d		3.52	9/0
$T_i = +30 {}^{\circ}\text{C}$	Pdc	36.84	kW		$T_j = +30 ^{\circ}\text{C}$ EF	ER_d		5.29	%
$T_i = +25 ^{\circ}\text{C}$	Pdc	23.68	kW		-	ER_d		9.63	9/0
$T_j = +20 ^{\circ}\text{C}$	Pdc	15.27	kW		*	ER_d		15.77	%
Degradation co- efficient air conditioners**	C_d	0.25	-						
Power consumption in r	nodes oth	ner than 'a	ctive mode'						
_			7			_			
Off mode	P_{OFF}	0.000	kW			P_{CK}		0.033	kW
Thermostat-off mode	P_{TO}	0.082	kW		Standby mode	P_{SB}		0.066	kW
Other items		1							
Capacity control	variable				For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	16200	r	m³/h
Sound power level, outdoor	L_{WA}	83.5	dB						
if engine driven: Emissions of nitrogen oxides		-	mg/kWh fuel input GCV						
GWP of the refrigerant		675	kg CO _{2 ep} (100 years)						
Contact details	MITSUBISHI ELECTRIC CORPORATION Contact details AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66,Tebira 6 Chome,Wakayama-City 640-8686,Japan								
** If C _d is not determine	ed by mea	asurement	then the de	fa	ult degradation coefficient	air conditi	oners sh	nall be	0.25.
Where information rela	tes to mu	ılti-split a	ir condition	er	s the test result and perfor	nance dat	a may h	e obta	ined on the

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

Model(s): Information to identify the model(s) to which the information relates: Outdoor: PUHY-EM450YNW-A1 (-BS) Indoor: PEFY-W63VMA2-A×4 units, PEFY-W50VMA2-A×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. Symbol Unit Value Unit Value Symbol Item Item Seasonal space heating 37.00 kW 137 Rated heating capacity Prated,h $\eta_{s,h}$ energy efficiency Declared coefficient of performance or gas utilization Declared heating capacity for part load at indoor efficiency / auxiliary energy factor for part load at given temperature 20 °C and outdoor temperature T_i outdoor temperatures Ti $T_i = -7$ °C Pdh **32.73** kW $T_i = -7$ °C COP_d 2.01 $T_i = +2 \, {}^{\circ}C$ Pdh 19.92 kW $T_i = +2 \, {}^{\circ}C$ COP_d 2.82 0/0 $T_i = +7$ °C Pdh $T_i = +7$ °C 7.24 12.81 kW COP_d % $T_i = +12 \,{}^{\circ}\text{C}$ Pdh 14.08 kW $T_i = +12 \,{}^{\circ}C$ 9.03 COP_d % $T_i = bivalent$ $T_i = bivalent$ 2.73 Pdh 37.00 kW COP_d % temperature temperature 19.89 T_i = operation limit Pdh kW T_i = operation limit COP_d 2.03 0/0 For air-to-water heat For water-to-air heat pumps: $T_i = -15$ °C (if Pdh pumps: $T_i = -15$ °C (if kW COP_d % $T_{OL} < -20 \, {}^{\circ}\text{C})$ $T_{OL} < -20$ °C) For water-to-air heat °C °C Bivalent temperature -10.0 pumps: Operation limit T_{ol} temperature efficient heat pumps** C_{dh} 0.25 Power consumption in modes other than 'active mode' Supplementary heater Electric back-up Off mode POFF 0.000 kW elbu 0.000 kW heating capacity * Thermostat-off mode P_{TO} 0.082 kW Type of energy input Crankcase heater mode P_{CK} 0.033 kW $P_{SB} \\$ kW0.066 Standby mode Other items For air-to-air heat pumps: Nominal air 18900 m³/h Capacity control variable flow rate, outdoor measured For water-/brine-to-air Sound power level 88.5 dB indoor outdoor L_{WA} pumps: Rated m³/h measured brine or water flow Emissions of nitrogen rate, outdoor heat NO, mg/kWh exchanger oxides (if applicable) kg CO₂ ep 675 GWP of the refrigerant (100 years) MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS Contact details 5-66, Tebira 6 Chome, Wakayama-City 640-8686, Japan ** 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

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			TODCCI	_	THE CHANGE THE				
Model(s): Information t	-			ch					
Outdoor: PUH					Indoor: PEFY-W63VM	A2-A×8 uni	its		
Outdoor heat exchanger of Indoor heat exchanger of									
Type: compressor drive									
if applicable: driver of o									
Item	Symbol	Value	Unit		Item	Symbol		Value	Unit
Itelli	Symbol	varue	Ullit	1		-		v aruc	/ Unit
Rated cooling capacity	$P_{\text{rated},c}$	56.00	kW		Seasonal space cooling energy efficiency	ls,c		284	%
Declared cooling capa	acity for	part loa	d at given		Declared energy efficien	cy ratio or	gas utili:	zation	efficiency /
outdoor temperatures T	and indoo	or 27°/19	°C (dry/wet		auxiliary energy factor	for part	load a	t give	en outdoor
bulb)					temperatures T _j				
$T_i = +35 ^{\circ}\text{C}$	Pdc	56.00	kW		$T_i = +35 ^{\circ}\text{C}$	EER_d		3.28	9/o
$T_{i} = +30 {}^{\circ}\text{C}$	Pdc	41.26	kW		$T_i = +30 ^{\circ}\text{C}$	EER_d		4.64	9/o
$T_i = +25 ^{\circ}\text{C}$	Pdc	26.53	kW		3	EER_d		9.33	<u>%</u>
$T_j = +20 ^{\circ}C$	Pdc	16.73	kW		3	EER _d		15.85	%
Degradation co-			_						\dashv
_	C_d	0.25	_						
conditioners**	u								
Power consumption in 1	nodes othe	er than 'a	ctive mode'						•
			-						
Off mode	P _{OFF}	0.000	kW		Crankcase heater mode	P _{CK}		0.034	
Thermostat-off mode	P_{TO}	0.081	kW		Standby mode	P_{SB}		0.065	kW
Other items	1					•			
Capacity control	variable				For air-to-air ai conditioner: Nominal ai flow rate, outdoo measured	r	17700	n	n³/h
Sound power level, outdoor	L _{WA}	32.0	dB						
if engine driven: Emissions of nitrogen oxides			mg/kWh fuel input GCV						
GWP of the refrigerant		675	kg CO _{2 ep} (100 years)						
					RPORATION			-	
Contact details					RIGERATION SYSTEM	S WORKS			
					na-City 640-8686,Japan				
** If C _d is not determine	ed by mea	surement	t then the de	efa	ult degradation coefficier	t air condit	ioners sh	all be	0.25.

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			<u></u>		THE CHAIN THE					
Model(s): Information to	-									
Outdoor: PUH					Indoor: PEFY-W63VMA	$A2-A\times 8$ un	its			
Outdoor heat exchanger										
Indoor heat exchanger of					•					
Indication if the heater i				_						
	lared for	the averag	ge heating s	sea	ason, parameters for the wa	armer and	colder h	eating	g sea	asons are
optional.	Crambal	X7-1	T.L:4		T4	C11		Val.		TT:4
Item	Symbol	Value	Unit	1	Item Seasonal space heating	Symbol		v ai	ue	Unit
Rated heating capacity	$P_{\text{rated},h}$	37.50	kW		energy efficiency	$\eta_{s,h} \\$		13	7	%
Declared heating capa	city for	nart load	at indoor		Declared coefficient of	perform	ance of	r gas	s u	tilizatio
temperature 20 °C and o					efficiency / auxiliary en	ergy facto	or for p	art lo	ad	at give
temperature 20°C and C	outdoor to	inperature	- 1 _j		outdoor temperatures T _j					_
$T_j = -7 ^{\circ}C$	Pdh	33.17	kW		$T_j = -7 ^{\circ}C$	COP_d		2.68		%
$T_j = +2 ^{\circ}C$	Pdh	20.19	kW		$T_j = +2 ^{\circ}C$	COP_d		2.81		%
$T_j = +7$ °C	Pdh	12.98	kW		$T_j = +7 ^{\circ}C$	COP_d		5.72		%
$T_{j} = + 12 {}^{\circ}\text{C}$	Pdh	9.67	kW		$T_{j} = + 12 {}^{\circ}\text{C}$	COP_d		6.74		%
$T_j = bivalent$	Pdh	37.50	kW		$T_j = bivalent$	COP_d		2.60		%
temperature	I un	37.30	K VV		temperature	COI d				70
T_j = operation limit	Pdh	20.13	kW		T_j = operation limit	COP_d		2.38		0/o
For air-to-water heat					For water-to-air heat					
pumps: $T_j = -15$ °C (if	Pdh	-	kW		pumps: $T_j = -15$ °C (if	COP_d		-		0/o
$T_{OL} < -20 ^{\circ}\text{C}$					$T_{OL} < -20$ °C)					
					For water-to-air heat					
Bivalent temperature	$T_{\rm biv}$	-10.0	°C		pumps: Operation limit	T_{ol}		-		°C
					temperature					
Degradation co-	C_{dh}	0.25								
efficient heat pumps**	dh	0.23		l						
Power consumption in r	nodes oth	er than 'a	ctive mode'		Supplementary heater					
			7							Ī
Off mode	P_{OFF}	0.000	kW		Electric back-up	elbu		0.00	0	kW
					heating capacity *					
Thermostat-off mode	P_{TO}	0.081	kW		Type of energy input					
Crankcase heater mode	P_{CK}	0.034	kW		Standby mode	P_{SB}		0.06	5	kW
Other items				1						
					For air-to-air heat					
G '4 1					pumps: Nominal air		17700		3/1	L
Capacity control	variable				flow rate, outdoor	-	17700		m ³ /]	n
					measured					
Sound power level,					For water-/brine-to-air					
indoor / outdoor	L_{WA}	85.5	dB	1	heat pumps: Rated					
measured					brine or water flow	-	-		m ³ /l	h
Emissions of nitrogen	NO.	_	mg/kWh	1	rate, outdoor heat					
oxides (if applicable)	• x		6/1.11	L	exchanger					
GWP of the refrigerant		675	kg CO _{2 ep} (100 years)							
	MITGUE	icii ri		L	D DOD A TION					
Contact details					RPORATION	WODE				
Contact details					RIGERATION SYSTEMS	WORKS				
** If C is not determine					na-City 640-8686,Japan	of boot	mns al-	11 ha 1	0.25	:
					nult degradation coefficient					
		-			s, the test result and performance maintain of indoor unit(s		-			
coasis of the berrormane	e or me (uu wuu a		minimization of macoor imitie	, recomme	ancie:ci nv	THE T		шасште

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