PRODUCT INFORMATION
PUHY-P***YNW-A1(-BS)
PUHY-EP***YNW-A1(-BS)
For Europe Regulation

Model(s): Information to					he information relates: or:PEFY-P50VMA3-E×4 u	nita							
Outdoor: PUHY-P200YNW-A1 (-BS) Indoor: PEFY-P50VMA3-E×4 units Outdoor heat exchanger of air conditioner: air													
Indoor heat exchanger o				_									
Type: compressor driver				_				-					
if applicable: driver of c				_									
Item	Symbol	Value		_	Item Syr	nbol		Value	Unit				
100111		\top							1				
Rated cooling capacity	P _{rated,c}	22.40	kW		Seasonal space cooling $\eta_{s,c}$ energy efficiency			297.0	%				
Declared cooling capa		_	-		Declared energy efficiency	_			-				
outdoor temperatures T _j	and indo	or 27º/19	°C (dry/wet		auxiliary energy factor f	or part	load at	given	outdoor				
bulb)				,	temperatures T _j								
$T_i = +35$ °C	Pdc	22.40	kW	,	$T_i = +35 ^{\circ}\text{C}$ EE	R_d		4.65	%				
$T_{i} = +30 {}^{\circ}\text{C}$	Pdc	16.51	kW	,	$T_i = +30 ^{\circ}\text{C}$ EE	R_d		6.03	%				
$T_i = +25 {}^{\circ}\text{C}$	Pdc	10.61	kW	,	$T_i = +25 ^{\circ}\text{C}$ EE	R_d		9.47	%				
$T_{i}^{j} = +20 {}^{\circ}\text{C}$	Pdc	7.36	kW	,	$T_i = +20 ^{\circ}C$ EE	R_d		13.45	%				
Degradation co-													
efficient air C _d 0.25 -													
efficient air C _d 0.25 -													
		- .											
Power consumption in n	nodes othe	er than 'ac	ctive mode'	,									
Off mode	P_{OFF}	0.069	$\log kW$,	Crankcase heater mode P	CK		0.029	kW				
Thermostat-off mode	P _{TO}	0.029	kW	,		SB		0.069	kW				
Thermostat on mode	10	0.022	-	,	bullady mode	SB		0.002	K ***				
Other items				,									
Other items				\dashv	For air-to-air air			\neg					
				,	conditioner: Nominal air								
Capacity control	variable			,	flow rate, outdoor		10200	m^3	/h				
					measured outdoor								
C 11	 			\dashv	medsarea			\dashv					
Sound power level,	L _{WA}	75	dB	,									
outdoor	\vdash		 	\dashv									
if engine driven:			mg/kWh	,									
Emissions of nitrogen		_	fuel input	,									
oxides	·		GCV	,									
	\sqcup			\sqcup				\bot					
CVID - £41 - nofmiconant		2000	kg CO _{2 ep}	,									
GWP of the refrigerant		2088	(100 years)	,									
	MITSUE	ISHI EL	ECTRIC CC)N	ISUMER PRODUCTS (THA	AILAND	CO., L	TD.					
Contact details	1				700/406 Moo 7, Tambon D								
			20000, Thai				, 1						
** If C _d is not determined by measurement then the default degradation coefficient air conditioners shall be 0.25.													
					, the test result and perform								
		-			oination of indoor unit(s) rec		-						

⁽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-P200YNW-A1 (-BS) Indoor: PEFY-P50VMA3-E×4 units												
Outdoor heat exchanger	of heat p	ump: air										
Indoor heat exchanger of												
Indication if the heater i												
Parameters shall be decoptional.	lared for t	the averag	ge heating so	ea	son, parameters for the wa	rmer and c	older he	ating s	easons are			
Item	Symbol	Value	Unit	_	Item	Symbol		Value	Unit			
				1	Seasonal space heating	Бушеег						
Rated heating capacity	P _{rated,h}	22.40	kW		energy efficiency	$\eta_{s,h}$		172.0				
Declared heating capa	city for	nart load	l at indoor		Declared coefficient of	•		_				
temperature 20 °C and o	-	_			efficiency / auxiliary en outdoor temperatures T _i	ergy factor	r for pa	rt load	at given			
$T_i = -7 ^{\circ}C$	Pdh	11.28	kW		$T_i = -7 ^{\circ}\text{C}$	COP_d		2.90	%			
$T_i = +2 ^{\circ}C$	Pdh	6.87	kW		$T_i = +2 ^{\circ}C$	COP_d		4.10	 70			
$T_i = +7 ^{\circ}C$	Pdh	4.78	kW		$T_i = +7 ^{\circ}C$	COP_d		6.55	%			
$T_i = +12 ^{\circ}\text{C}$	Pdh	6.48	kW		$T_i = +12 ^{\circ}C$	COP_d		7.28	%			
$T_i = bivalent$	1 un	0.40	- K W		$T_i = bivalent$	COI d		7.20	- ⁻⁷⁸			
	Pdh	12.75	kW		l *	COP_d		2.27	%			
temperature T_i = operation limit	Pdh	13.10	kW		temperature	COP_d		2.46	9/0			
For air-to-water heat		13.10	-KW		T_j = operation limit For water-to-air heat	COrd		2.40	- →			
			1-337		pumps: $T_j = -15$ °C (if	COP_d			0/			
pumps: $T_j = -15$ °C (if	Pun	-	kW			COP_d		-	%			
$T_{OL} < -20 ^{\circ}C)$			-		$T_{OL} < -20 ^{\circ}\text{C}$				4			
	T	1.00			For water-to-air heat	TD						
Bivalent temperature	$T_{\rm biv}$	-10.0	°C		pumps: Operation limit	T_{ol}		-	°C			
			4		temperature				4			
			4						4			
Degradation co-	C_{dh}	0.25	_									
efficient heat pumps**	un			1								
Power consumption in n	nodes oth	er than 'a	ctive mode'		Supplementary heater							
	-		1		Electric back-up				7			
Off mode	P_{OFF}	0.069	kW		heating capacity *	elbu		0.000	kW			
Thermostat-off mode	P_{TO}	0.129	kW		Type of energy input							
Crankcase heater mode	P_{CK}	0.029	kW		Standby mode	P_{SB}		0.146	kW			
Other items			<u> </u>	$\left\{ \right.$		SB .						
Other items	Ι			H	For air-to-air heat	1						
					pumps: Nominal air							
Capacity control	variable				flow rate, outdoor	-	10200	m ³	⁵ /h			
					measured							
Sound power level,				t	For water-/brine-to-air							
indoor / outdoor		77	dB		heat pumps: Rated							
measured outdoor	L _{WA}	, ,	uD		brine or water flow	_	_	m ³	5/h			
Emissions of nitrogen				╁	rate, outdoor heat				711			
oxides (if applicable)	NO _x	-	mg/kWh		exchanger							
oxides (if applicable)				H	CACHAIIGEI	1		+				
GWP of the refrigerant		2088	kg CO _{2 ep}									
ovi or the renigerant		2000	(100 years)									
	MITSUF	BISHI EL	ECTRIC CO	10	NSUMER PRODUCTS (T	HAILAND) CO L	TD.				
Contact details	1				, 700/406 Moo 7, Tambon		*					
	1		20000, Tha				, 					
** If C _d is not determine					ult degradation coefficient	of heat pur	nps shal	1 be 0.2	25.			
					s, the test result and perfor							
					bination of indoor unit(s) re							
importer.			,	-	(<i>a</i>) -		,					

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

Model(s): Information to	-					4 :4					
Outdoor: PUHY Outdoor heat exchanger				ao	or:PEFY-P63VMA3-E×	4 units					
Indoor heat exchanger of											
Type: compressor drive											
if applicable: driver of c											
Item	Symbol	Value	Unit		Item	Symbol		Value	Unit		
Rated cooling capacity	P _{rated,c}	28.00	kW		Seasonal space cooling energy efficiency	$\eta_{\mathrm{s,c}}$		277.0	%		
Declared cooling capa	acity for	part loa	d at given	1	Declared energy efficier	ncy ratio or	gas utiliz	ation e	ficiency		
outdoor temperatures T _j					auxiliary energy facto	r for part	load a	t given	outdoor		
bulb)			_		temperatures T _j				_		
$T_j = +35 ^{\circ}\text{C}$	Pdc	28.00	kW		J	EER_d		3.92	%		
$T_{j} = +30 {}^{\circ}\text{C}$	Pdc	20.63	kW		J	EER_d		5.45	%		
$T_j = +25 ^{\circ}\mathrm{C}$	Pdc	13.26	kW		$T_j = +25 ^{\circ}\text{C}$	EER_d		8.45	%		
$T_{j} = +20 {}^{\circ}\text{C}$	Pdc	7.36	kW		$T_j = +20 ^{\circ}C$	EER_d		12.8	%		
Degradation co-	C_d	0.25	_								
efficient air	u										
Power consumption in r	nodes oth	er than 'a	ctive mode'								
Off mode	P_{OFF}	0.069	lkW		Crankcase heater mode	P_{CK}		0.029	kW		
Thermostat-off mode	P_{TO}	0.029	kW		Standby mode	P_{SB}		0.069			
	10				<i>y</i>	35			12		
Other items		Į		1							
				П		ir					
Capacity control	variable				conditioner: Nominal a	1-	11100	m³	/h		
					flow rate, outdoo	or					
C 1 1 1				H	measured		<u> </u>				
Sound power level, outdoor	L_{WA}	78	dB								
				Н							
if engine driven:	1		mg/kWh								
Emissions of nitrogen	NO_x	-	fuel input								
oxides			GCV								
GWP of the refrigerant		2088	kg CO _{2 ep} (100 years)								
	MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD.										
Contact details	1				700/406 Moo 7, Tambo	n Don Hua	Roh, Am	phur			
** ICC ' . 1			20000, Tha			,		11.1 0	25		
_	-				alt degradation coefficier						
Where information rela	tes to mu	Itı-split ai	r conditione	ers	, the test result and perfe	ormance da	ta may b	e obtain	ed on the		

importer.

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

⁽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-P250YNW-A1 (-BS) Indoor: PEFY-P63VMA3-E×4 units Outdoor heat exchanger of air conditioner: air												
Indoor heat exchanger of Indication if the heater is				wy hooton no								
				eason, parameters for the wa	rmer and c	older heatin	a cascone ara					
optional.	iaica ioi	tiic averag	ge meaning so	cason, parameters for the wa	irriici and c	older meatin	g scasons are					
Item	Symbol	Value	Unit	Item	Symbol	Va	lue Unit					
				Seasonal space heating	Бушоог							
Rated heating capacity	P _{rated,h}	28.00	kW	energy efficiency	$\eta_{s,h}$		5.0 %					
Declared heating capa	city for	part load	l at indoor	Declared coefficient of	_	_						
temperature 20 °C and o	•	-		efficiency / auxiliary en	ergy factor	f for part l	oad at given					
T 7.0C	D 11	14.10	7	outdoor temperatures T _j	COD	20	<u> </u>					
$T_j = -7$ °C	Pdh		kW	$T_j = -7$ °C	COP_d	2.9						
$T_j = +2$ °C	Pdh	8.65	kW	$T_j = +2$ °C	COP_d	3.8						
$T_j = +7$ °C	Pdh	5.56	kW	$T_j = +7$ °C	COP_d	6.0						
$T_j = +12 ^{\circ}C$	Pdh	6.75	kW	$T_j = +12 ^{\circ}C$	COP_d	7.0	5 %					
$T_j = bivalent$	Pdh	16.03	kW	$T_j = bivalent$	COP_d	2.1	7 %					
temperature	D 11			temperature								
T_j = operation limit	Pdh	14.00	kW	$T_j = operation limit$	COP_d	2.2	<u>0 </u>					
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	-	%					
$T_{OL} < -20 ^{\circ}\text{C}$				$T_{OL} < -20 ^{\circ}\text{C}$								
				For water-to-air heat								
Bivalent temperature	$T_{\rm biv}$	-10.0	°C	pumps: Operation limit	T_{ol}	-	°C					
			<u> </u>	temperature								
Degradation co-	()	0.25	1									
efficient heat pumps**	C_{dh}	0.25	_									
Power consumption in r	nodes oth	er than 'ac	ctive mode'	Supplementary heater								
l ower consumption in i	no uc s our					_						
Off mode	P_{OFF}	0.069	kW	Electric back-up	elbu	0.0	00 kW					
			4	heating capacity *			, k,,					
Thermostat-off mode	P_{TO}	0.129	kW	Type of energy input								
Crankcase heater mode	P_{CK}	0.029	kW	Standby mode	P_{SB}	0.1	46 kW					
Other items			1		1							
				For air-to-air heat								
				pumps: Nominal air		11100						
Capacity control	variable			flow rate, outdoor	-	11100	m³/h					
				measured								
Sound power level,				For water-/brine-to-air								
indoor / outdoor		80	dB	heat pumps: Rated								
measured	- WA			brine or water flow	_	_	m³/h					
Emissions of nitrogen				rate, outdoor heat	1		111 / 11					
oxides (if applicable)	NO_x	-	mg/kWh	exchanger								
oxides (ii applicable)			1 00	- Chemanger								
GWP of the refrigerant		2088	kg CO _{2 ep} (100 years)									
				ONSUMER PRODUCTS (T		*						
Contact details	Contact details Amata Nakorn Industrial Estate, 700/406 Moo 7, Tambon Don Hua Roh, Amphur											
			20000, Tha									
				fault degradation coefficient								
	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

Model(s): Information to											
Outdoor: PUHY-Outdoor heat exchanger				10	or:PEFY-P50VMA3-E×6	units					
Indoor heat exchanger o				_							
Type: compressor driver				_							
if applicable: driver of c				_							
Item	Symbol	Value		_	Item S	Symbol		Value	Unit		
Rated cooling capacity	•	33.50	kW		Seasonal space cooling renergy efficiency			265.0	%		
Declared cooling capa	city for	part loa	d at given		Declared energy efficience	y ratio or §	gas utiliz	ation ef	ficiency /		
outdoor temperatures T _j					auxiliary energy factor	for part	load at	t given	outdoor		
bulb)					temperatures T _j						
$T_j = +35 ^{\circ}\mathrm{C}$	Pdc	33.50	kW		$T_j = +35 ^{\circ}\text{C}$	EER_d		3.81	%		
$T_{j} = +30 {}^{\circ}\text{C}$	Pdc	24.68	kW		$T_j = +30 ^{\circ}\text{C}$	EER_d		4.74	%		
$T_{j} = +25 {}^{\circ}\text{C}$	Pdc	15.87	kW		-	EER_d		8.11	%		
$T_i = +20 {}^{\circ}\text{C}$	Pdc	8.99	kW		,	EER_d		13.00	%		
,			1						1		
Degradation co- efficient air	C_d	0.25	-								
Power consumption in n	'ower consumption in modes other than 'active mode'										
Off mode	P_{OFF}	0.069	kW		Crankcase heater mode	P_{CK}		0.029	kW		
Thermostat-off mode	P_{TO}	0.029	kW		Standby mode	P_{SB}		0.069	kW		
			1								
Other items				╝		-	-				
Capacity control	variable				For air-to-air air conditioner: Nominal air flow rate, outdoor measured	r	12000	m^3	/h		
Sound power level, outdoor	L_{WA}	80	dB								
if engine driven: Emissions of nitrogen oxides	1 1		mg/kWh fuel input GCV								
GWP of the refrigerant		2088	kg CO _{2 ep} (100 years)								
Contact details	MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. Contact details Amata Nakorn Industrial Estate, 700/406 Moo 7, Tambon Don Hua Roh, Amphur Muang, Chonburi 20000, Thailand										
	-				ult degradation coefficient						
					, the test result and perfor						
basis of the performance	e of the or	atdoor uni	it, with a con	nŀ	oination of indoor unit(s) r	ecommendo	ed by the	e manuf	acturer or		

⁽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-P300YNW-A1 (-BS) Indoor: PEFY-P50VMA3-E×6 units												
Outdoor heat exchanger of air conditioner: air												
Indoor heat exchanger of				_								
Indication if the heater i				ıry	heater: no							
					son, parameters for the wa	rmer and c	older he	ating se	asons are			
optional.			_		-							
Item	Symbol	Value	Unit		Item	Symbol		Value	Unit			
Rated heating capacity	Р	33.50	1-W		Seasonal space heating	n .		163.0	0/2			
Rated heating capacity	rated,h	33.30	K VV]	energy efficiency	$\eta_{s,h}$						
Declared heating capa	city for	part load	l at indoor		Declared coefficient of			_				
temperature 20 °C and c					efficiency / auxiliary en	ergy factor	r for pa	rt load	at given			
_			,		outdoor temperatures T _j				,			
$T_j = -7 ^{\circ}C$	Pdh	16.92	kW		$T_j = -7$ °C	COP_d		2.60	%			
$T_j = + 2 ^{\circ}C$	Pdh	10.30	kW		$T_j = +2 ^{\circ}C$	COP_d		3.68	%			
$T_j = +7$ °C	Pdh	6.62	kW		$T_j = +7 ^{\circ}C$	COP_d		7.02	%			
$T_{j} = + 12 {}^{\circ}\text{C}$	Pdh	8.35	kW		$T_{j} = + 12 {}^{\circ}\text{C}$	COP_d		7.40	%			
$T_j = bivalent$	Pdh	19.30	kW		$T_j = bivalent$	COP_d		1.96	%			
temperature			1		temperature]′"			
T_j = operation limit	Pdh	17.00	kW		T_j = operation limit	COP_d		2.10	%			
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		-	9/0			
$T_{OL} < -20$ °C)]		$T_{OL} < -20 ^{\circ}C)$]			
					For water-to-air heat							
Bivalent temperature	T_{biv}	-10.0	°C		pumps: Operation limit	T_{ol}		-	°C			
					temperature							
Degradation co-	C.,	0.25										
efficient heat pumps**	C_{dh}	0.25	-]								
Power consumption in n	nodes oth	er than 'a	etive mode!		Supplementary heater							
l ower consumption in i	nodes ou	- than a	- Inode									
Off mode	P_{OFF}	0.069	kW		Electric back-up	elbu		0.000	kW			
			4		heating capacity *			0.000	K VV			
Thermostat-off mode	P_{TO}	0.129	kW		Type of energy input							
Crankcase heater mode	P_{CK}	0.029	kW		Standby mode	P_{SB}		0.146	kW			
	CK		11.			ЗВ			12			
Other items				Ш								
					For air-to-air heat							
Capacity control	variable				pumps: Nominal air	_	14400	m^3	/h			
					flow rate, outdoor							
				Н	measured							
Sound power level,		0.4	10		For water-/brine-to-air							
indoor / outdoor	L_{WA}	84	dB		heat pumps: Rated				и			
measured				Н	brine or water flow	-	-	m³,	/h			
Emissions of nitrogen	NO_{v}	-	mg/kWh		rate, outdoor heat							
oxides (if applicable)	Α			Н	exchanger							
GWP of the refrigerant		2088	kg CO ₂ ep									
WI Of the felligerallt		2000	(100 years)									
	MITSUI	BISHI EL	ECTRIC CO	<u> 1</u>	NSUMER PRODUCTS (T	HAILAND) CO., L	TD.				
Contact details	1				, 700/406 Moo 7, Tambon		*					
	1		20000, Thai				, 1					
** If C _d is not determine					ult degradation coefficient	of heat pur	nps shall	be 0,2	5.			
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

		110	ODUCT.	-1	11.01(1)				
Model(s): Information to Outdoor: PUHY-					the information relates: EFY-P63VMA3-E×4 unit	ts, PEFY-F	P50VMA3	3-E×2	units
Outdoor heat exchanger				_					
Indoor heat exchanger of									
Type: compressor driver									
if applicable: driver of c	_		motor						
Item	Symbol	Value	Unit			Symbol		Value	Unit
Rated cooling capacity	$P_{\text{rated,c}}$	40.00	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$		265.0	%
Declared cooling capa outdoor temperatures T _j bulb)	and indo	or 27°/19	°C (dry/wet		Declared energy efficien auxiliary energy factor temperatures T _j	for part		t give	n outdoor
$T_j = +35 ^{\circ}C$	Pdc		kW		J	EER _d		3.65	- %
$T_{j} = +30 {}^{\circ}\text{C}$	Pdc	29.47	kW		J	EER_d		4.77	%
$T_{j} = +25 {}^{\circ}\text{C}$	Pdc	18.95	kW		J	EER_d		8.20	%
$T_{j} = +20 {}^{\circ}\text{C}$	Pdc	9.93	kW		$T_{j} = +20 ^{\circ}\mathrm{C}$	EER_d		13.40	%
Degradation co- efficient air	· C _d	0.25	- -						
Power consumption in n	nodes othe	er than 'ac	ctive mode'						
			, l			D		0.020	1 337
Off mode	P _{OFF}	0.095	- I		Crankcase heater mode	P_{CK}			kW
Thermostat-off mode	P_{TO}	0.039	kW		Standby mode	P_{SB}		0.095	kW
Other items				ł					
Capacity control	variable				For air-to-air ai conditioner: Nominal ai flow rate, outdoo measured	ir	15000	m	n³/h
Sound power level, outdoor	L_{WA}	80	dB						
if engine driven: Emissions of nitrogen oxides	1	_	mg/kWh fuel input GCV						
GWP of the refrigerant		2088	kg CO _{2 ep} (100 years)						
Contact details	Amata N Muang, 0	akorn Ind Chonburi	dustrial Estat 20000, Thai	te ila		Don Hua	Roh, Am	phur	
** If C _d is not determine	ed by mea	surement	then the def	fa	ult degradation coefficien	t air condit	tioners sh	all be (0.25.
		•			s, the test result and perfo pination of indoor unit(s)		-		

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

PRODUCT INFORMATION(1) Model(s): Information to identify the model(s) to which the information relates: Outdoor: PUHY-P350YNW-A1(-BS) Indoor: PEFY-P63VMA3-E×4 units, PEFY-P50VMA3-E×2 units Outdoor heat exchanger of air conditioner: air Indoor heat exchanger of air conditioner: air Indication if the heater is equipped with a supplementary heater: no Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional. Item Symbol Value Unit Item Symbol Value Unit Seasonal space heating 40.00 kW % Rated heating capacity P_{rated,h} 166.0 $\eta_{s,h}$ 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 Pdh 20.30 $T_i = -7$ °C COP_d 2.65 kW % $T_i = +2 \, ^{\circ}C$ Pdh kW $T_i = +2 \, ^{\circ}C$ % 12.36 COP_d 3.85 $T_i = +7$ °C Pdh 7.94 $T_i = +7$ °C COP_d kW 6.77 % $T_{i} = + 12 \, {}^{\circ}\text{C}$ Pdh 8.55 kW $T_{i} = +12 \, {}^{\circ}C$ COP_d 7.42 % $T_i = bivalent$ $T_i = bivalent$ Pdh 23.00 COP_d 1.95 % kW temperature temperature T_i = operation limit Pdh 16.60 kW $T_i = operation limit$ COP_d 1.96 0/0 For air-to-water heat For water-to-air heat pumps: $T_i = -15$ °C (if pumps: $T_i = -15$ °C (if Pdh kW COP_d % $T_{OL} < -20 \, {}^{\circ}C)$ $T_{OL} < -20$ °C) For water-to-air heat Bivalent temperature T_{biv} -10.0 $^{\circ}C$ pumps: Operation limit T_{ol} $^{\circ}C$ temperature Degradation 0.25 efficient heat pumps** Power consumption in modes other than 'active mode' Supplementary heater Electric back-up Off mode POFF 0.095 kW 0.000kW elbu heating capacity * 0.156 Thermostat-off mode P_{TO} kW Type of energy input P_{SB} Crankcase heater mode P_{CK} 0.039 kW Standby mode 0.173 kW Other items For heat air-to-air pumps: Nominal air Capacity control variable 16200 m³/h flow rate, outdoor measured Sound power level. For water-/brine-to-air 83 dΒ Rated indoor outdoor L_{WA} pumps: brine or water flow m³/h measured outdoor Emissions of nitrogen rate, heat NO. mg/kWh oxides (if applicable) exchanger kg CO₂ ep 2088 GWP of the refrigerant (100 years) MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. Amata Nakorn Industrial Estate, 700/406 Moo 7, Tambon Don Hua Roh, Amphur Contact details Muang, Chonburi 20000, Thailand ** If C_d is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.

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^{**} If C_d is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25. Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

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

Model(s): Information to						D50VMA	2 E×1 n	-it				
Outdoor: PUHY-P400YNW-A1 (-BS) Indoor: PEFY-P71VMA3-E×5 units, PEFY-P50VMA3-E×1 unit Outdoor heat exchanger of air conditioner: air												
Indoor heat exchanger o												
Type: compressor driver												
if applicable: driver of c												
	Symbol	Value		Item	Symbol		Value	Unit				
Rated cooling capacity	-	45.00	kW	Seasonal space energy efficiency	cooling		252.0	%				
Declared cooling capa	city for	part loa	d at given	Declared energy	efficiency ratio or	gas utiliz	ation ef	ficiency /				
outdoor temperatures T _j		-	-	auxiliary energy	y factor for part							
bulb)			_	temperatures T _j				_				
$T_j = +35 ^{\circ}\text{C}$	Pdc	45.00	kW	$T_j = +35$ °C	EER_d		3.17	<u></u>				
$T_{j} = +30 {}^{\circ}\text{C}$	Pdc	33.16	kW	$T_{j} = +30 {}^{\circ}\text{C}$	EER_d		4.63	%				
$T_i = +25 {}^{\circ}\text{C}$	Pdc	21.32	kW	$T_{j} = +25 {}^{\circ}\text{C}$	EER_d		7.33	%				
3	Pdc	11.70	kW	$T_i = +20 {}^{\circ}\text{C}$	EER_d		14.47	%				
J			1	,				1				
Degradation co- efficient air	$\mathbf{C}_{\mathbf{d}}$	0.25	<u> </u> -					† 				
Power consumption in n	nodes othe	r than 'ac	rtive mode'									
_			, l		_							
	P_{OFF}		kW	Crankcase heate				kW				
Thermostat-off mode	P_{TO}	0.039	kW	Standby mode	P_{SB}		0.095	kW				
		Ь										
Other items	т —			Transinto o	· -:al							
Capacity control	variable			For air-to-a conditioner: No flow rate, measured		16200	m ³ /	'h				
Sound power level, outdoor	L _{WA}	82	dB									
if engine driven: Emissions of nitrogen oxides		-	mg/kWh fuel input GCV									
GWP of the refrigerant		2088	kg CO _{2 ep} (100 years)									
					UCTS (THAILANI	,						
Contact details			lustrial Estate 20000, Thail		Tambon Don Hua	Roh, Am	ρhur 					
** If C _d is not determined by measurement then the default degradation coefficient air conditioners shall be 0.25.												
Where information relat												
basis of the performance	e of the ou	tdoor uni	t, with a com	ibination of indoor	r unit(s) recommend	ded by the	manuf	acturer or				

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

PRODUCT INFORMATION(1) Model(s): Information to identify the model(s) to which the information relates: Outdoor: PUHY-P400YNW-A1 (-BS) Indoor: PEFY-P71VMA3-E×5 units, PEFY-P50VMA3-E×1 unit Outdoor heat exchanger of air conditioner: air Indoor heat exchanger of air conditioner: air Indication if the heater is equipped with a supplementary heater: no Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional. Item Symbol Value Unit Item Symbol Value Unit Seasonal space heating 45.00 kW 162.0 % Rated heating capacity P_{rated,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 Pdh 22.56 $T_i = -7$ °C COP_d 2.67 kW % 3.90 $T_i = +2 \, ^{\circ}C$ Pdh kW $T_i = +2 \, ^{\circ}C$ % 13.73 COP_d $T_i = +7$ °C Pdh $T_i = +7$ °C COP_d 8.83 kW 5.88 % $T_{i} = + 12 \, {}^{\circ}\text{C}$ Pdh 9.43 kW $T_{i} = +12 \, {}^{\circ}C$ COP_d 7.01 % $T_i = bivalent$ $T_i = bivalent$ Pdh 25.50 COP_d % kW 2.01 temperature temperature T_i = operation limit Pdh 21.70 kW $T_i = operation limit$ COP_d 2.23 0/0 For air-to-water heat For water-to-air heat pumps: $T_i = -15$ °C (if pumps: $T_i = -15$ °C (if Pdh kW COP_d % $T_{OL} < -20 \, {}^{\circ}C)$ $T_{OL} < -20$ °C) For water-to-air heat Bivalent temperature T_{biv} -10.0 $^{\circ}C$ pumps: Operation limit T_{ol} $^{\circ}C$ temperature Degradation 0.25 efficient heat pumps** Power consumption in modes other than 'active mode' Supplementary heater Electric back-up Off mode POFF 0.095 kW 0.000kW elbu heating capacity * 0.156 kW Thermostat-off mode P_{TO} Type of energy input Crankcase heater mode P_{CK} 0.039 kW Standby mode P_{SB} 0.173 kW Other items For heat air-to-air pumps: Nominal air 18000 Capacity control variable m³/h flow rate, outdoor measured For water-/brine-to-air Sound power level. 86 dΒ Rated indoor outdoor L_{WA} pumps: brine or water flow m³/h measured Emissions of nitrogen rate, outdoor heat NO. mg/kWh exchanger oxides (if applicable) kg CO₂ ep 2088 GWP of the refrigerant (100 years) MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. Amata Nakorn Industrial Estate, 700/406 Moo 7, Tambon Don Hua Roh, Amphur Contact details Muang, Chonburi 20000, Thailand ** If C_d is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25. Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or

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

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Model(s): Information to identify the model(s) to which the information relates: Outdoor: PUHY-P450YNW-A1 (-BS) Indoor: PEFY-P63VMA3-E×4 units, PEFY-P50VMA3-E×4 units												
Outdoor heat exchanger					DI TETOS VIVITAS ESTA GITA	,, 11/1 1 1 2	0 11111	-L/~ 1 64	111.5			
Indoor heat exchanger o				_								
Type: compressor driver	n vapour c	compressi	ion									
if applicable: driver of c			motor									
Item	Symbol	Value	Unit			ymbol		Value	Unit			
Rated cooling capacity	$P_{\text{rated,c}}$	50.00	kW		Seasonal space cooling η energy efficiency	s,c		256.0	%			
Declared cooling capa	city for	part load	d at given		Declared energy efficience	y ratio or g	as utiliz	ation ef	ficiency /			
outdoor temperatures T _j	and indo	or 27°/19°	°C (dry/wet		auxiliary energy factor	for part	load at	t given	outdoor			
bulb)			_		temperatures T _j				_			
$T_j = +35 ^{\circ}\mathrm{C}$	Pdc	50.00	kW		J	EER_d		3.43	<u>%</u>			
$T_{j} = +30 {}^{\circ}\text{C}$	Pdc	36.84	kW		J	EER_d		4.61	%			
$T_j = +25 ^{\circ}C$	Pdc	23.68	kW			EER_d		7.10	<u>%</u>			
$T_{j} = +20 {}^{\circ}\text{C}$	Pdc	11.90	kW		$T_j = +20 ^{\circ}\text{C}$	EER _d		15.20	%			
]]			
Degradation co- efficient air	C_d	0.25	-									
Power consumption in n	'ower consumption in modes other than 'active mode'											
Off mode	P_{OFF}	0.095	kW		Crankcase heater mode	P_{CK}		0.039	kW			
Thermostat-off mode	P_{TO}	0.039	kW		Standby mode	P_{SB}		0.095	kW			
			<u> </u>									
Other items				╝				<u> </u>				
Capacity control	variable				For air-to-air air conditioner: Nominal air flow rate, outdoor measured		17100	m ³ /	'h			
Sound power level, outdoor	L _{WA}	84	dB									
if engine driven: Emissions of nitrogen oxides		-	mg/kWh fuel input GCV									
GWP of the refrigerant		2088	kg CO _{2 ep} (100 years)									
Contact details	Muang, Chonburi 20000, Thailand											
	-				ult degradation coefficient							
I and the second		-			, the test result and perfor		-					
basis of the performance	ອ of the or	atdoor uni	t, with a con	nt	oination of indoor unit(s) re	ecommende	ed by the	: manuf	acturer or			

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

PRODUCT INFORMATION(1) Model(s): Information to identify the model(s) to which the information relates: Outdoor: PUHY-P450YNW-A1 (-BS) Indoor: PEFY-P63VMA3-E×4 units, PEFY-P50VMA3-E×4 units Outdoor heat exchanger of air conditioner: air Indoor heat exchanger of air conditioner: air Indication if the heater is equipped with a supplementary heater: no Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional. Item Symbol Value Unit Item Symbol Value Unit Seasonal space heating 50.00 kW 157.0 % Rated heating capacity P_{rated,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 25.26 $T_i = -7$ °C COP_d kW 2.40 % $T_i = +2 \, ^{\circ}C$ Pdh $T_i = +2 \, ^{\circ}C$ % 15.38 kW COP_d 3.51 $T_i = +7$ °C Pdh 9.89 $T_i = +7$ °C COP_d kW 6.77 % $T_{i} = + 12 \, {}^{\circ}\text{C}$ Pdh 10.45 kW $T_i = +12 \, {}^{\circ}C$ COP_d 8.20 % $T_i = bivalent$ $T_i = bivalent$ Pdh 28.60 COP_d % kW 1.96 temperature temperature T_i = operation limit Pdh 24.60 kW $T_i = operation limit$ COP_d 2.08 0/0 For air-to-water heat For water-to-air heat pumps: $T_i = -15$ °C (if pumps: $T_i = -15$ °C (if Pdh kW COP_d % $T_{OL} < -20 \, {}^{\circ}C)$ $T_{OL} < -20$ °C) For water-to-air heat Bivalent temperature T_{biv} -10.0 $^{\circ}C$ pumps: Operation limit T_{ol} °C temperature Degradation C_{dh} 0.25 efficient heat pumps** Power consumption in modes other than 'active mode' Supplementary heater Electric back-up Off mode POFF 0.095 kW 0.000kW elbu heating capacity * Thermostat-off mode 0.156 P_{TO} kW Type of energy input Crankcase heater mode P_{CK} 0.039 kW Standby mode P_{SB} 0.173 kW Other items For air-to-air heat pumps: Nominal Capacity control variable 18300 m³/h flow outdoor rate. measured water-/brine-to-air Sound power level. For 89 dΒ Rated indoor outdoor L_{WA} heat pumps: brine flow m³/h or water measured Emissions of nitrogen rate, outdoor heat NO. mg/kWh oxides (if applicable) exchanger kg CO₂ ep 2088 GWP of the refrigerant (100 years) MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. Amata Nakorn Industrial Estate, 700/406 Moo 7, Tambon Don Hua Roh, Amphur Contact details Muang, Chonburi 20000, Thailand ** If C_d is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.

Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

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

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Model(s): Information to Outdoor: PUHY	-				the information relates: or:PEFY-P63VMA3-E×	3 units			
Outdoor heat exchanger				_		-			
Indoor heat exchanger of									
Type: compressor driver	n vapour	compressi	on						
if applicable: driver of c	ompresso	or: electric	motor						
Item	Symbol	Value	Unit		Item	Symbol		Value	Unit
Rated cooling capacity	$P_{\text{rated,c}}$	56.00	kW		Seasonal space cooling energy efficiency	$\eta_{\mathrm{s,c}}$		249.0	%
Declared cooling capa	city for	part loa	d at given		Declared energy efficien	cy ratio or	gas utiliz	zation e	ficiency /
outdoor temperatures T _j	and indo	or 27º/19	°C (dry/wet		auxiliary energy factor	for part	load a	t given	outdoor
bulb)					temperatures T _j				
$T_i = +35 ^{\circ}\text{C}$	Pdc	56.00	kW		$T_j = +35 ^{\circ}\text{C}$	EER_d		3.19	%
$T_{i} = +30 {}^{\circ}\text{C}$	Pdc	41.26	kW			EER_d		4.59	%
$T_i = +25 {}^{\circ}\text{C}$	Pdc	26.53	kW			EER_d		7.20	%
$T_i = +20 {}^{\circ}\text{C}$	Pdc	12.30	kW		-	EER _d		12.85	%
,			1		,	_			1
Degradation co- efficient air	C_d	0.25	-						
Power consumption in n	nodes oth	er than 'ac	ctive mode'						
			, l		Crontroppe hooten made	D		0.020	1-337
Off mode	P _{OFF}	0.095	kW		Crankcase heater mode	P _{CK}		0.039	
Thermostat-off mode	P_{TO}	0.039	kW		Standby mode	P_{SB}		0.095	KW
Other items									
Other items	Ι				For air-to-air a	rl	1		
Capacity control	variable				conditioner: Nominal at flow rate, outdoor measured	r	18900	m³.	/h
Sound power level, outdoor	L_{WA}	82	dB						
if engine driven:			mg/kWh						
Emissions of nitrogen	NO _x	-	fuel input						
oxides			GCV						
GWP of the refrigerant		2088	kg CO _{2 ep} (100 years)						
	1				NSUMER PRODUCTS (7		*		
Contact details	1				, 700/406 Moo 7, Tambor	Don Hua I	Roh, Am	phur	
hh 70 G			20000, Thai					11.1 :	
	-				ult degradation coefficien				
					s, the test result and perfo				
basis of the performance	e of the or	utdoor uni	it, with a cor	nl	bination of indoor unit(s)	recommend	ed by the	e manuf	acturer or

⁽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-P500YNW-A1 (-BS) Indoor: PEFY-P63VMA3-E×8 units													
Outdoor heat exchanger of air conditioner: air													
Indoor heat exchanger of													
Indication if the heater i				rv heater: no									
Parameters shall be dec	lared for	the average	ge heating se	eason, parameters for the wa	rmer and c	older heatin	g seasons are						
optional.		•	5	, <u>I</u>									
Item	Symbol	Value	Unit	Item	Symbol	Va	alue Unit						
D . 11 .:		7.00		Seasonal space heating									
Rated heating capacity	P _{rated,h}	56.00	kW	energy efficiency	$\eta_{s,h}$	15	53.0 %						
Daglared heating some	aity for	mont look	l at indoor	Declared coefficient or	f performa	ince or ga	s utilization						
Declared heating capa				efficiency / auxiliary en	ergy factor	r for part l	oad at given						
temperature 20 °C and o	outdoor te	mperatur	- 1 _j	outdoor temperatures T _i									
$T_i = -7 ^{\circ}C$	Pdh	28.42	kW	$T_i = -7 ^{\circ}C$	COP_d	2.6	1 %						
$T_i = +2$ °C	Pdh	17.30	kW	$T_i = +2 ^{\circ}C$	COP_d	3.3	3 %						
$T_i = +7$ °C	Pdh	11.12	kW	$T_i = +7 ^{\circ}C$	COP_d	6.4	7 %						
$T_{i} = + 12 {}^{\circ}\text{C}$	Pdh	13.07	kW	$T_i = +12 {}^{\circ}\text{C}$	COP_d	7.8	2 %						
$T_i = bivalent$	Pdh	22.20],,,,	$T_j = bivalent$	COD	2.0	1 0/						
temperature	Pun	32.20	kW	temperature	COP_d	2.0	1 %						
T_j = operation limit	Pdh	29.60	kW	T_j = operation limit	COP_d	2.2	4 %						
For air-to-water heat			1	For water-to-air heat									
pumps: $T_j = -15$ °C (if	Pdh	-	kW	pumps: $T_j = -15$ °C (if	COP_d	-	%						
$T_{OL} < -20 {}^{\circ}\text{C}$				$T_{\rm OL}$ < -20 °C)									
			1	For water-to-air heat									
Bivalent temperature	$T_{\rm biv}$	-10.0	°C	pumps: Operation limit	T_{ol}	-	°C						
				temperature									
			1										
Degradation co-	C	0.25	1										
efficient heat pumps**	C_{dh}	0.25	-										
Power consumption in n	nodes oth	er than 'a	etive mode!	Supplementary heater		-							
	noues our	Ci tilali a	- Inouc	Supplementary heater									
Off mode	P_{OFF}	0.095	kW	Electric back-up	elbu	0.0	00 kW						
			-	heating capacity *		0.0	W IX V						
Thermostat-off mode	P_{TO}	0.164	kW	Type of energy input									
Crankcase heater mode	P_{CK}	0.039	kW	Standby mode	P_{SB}	0.1	73 kW						
	CIC				ВВ								
Other items	1				1	Γ	1						
				For air-to-air heat									
Capacity control	variable			pumps: Nominal air	_	21900	m³/h						
				flow rate, outdoor									
Cound marrian larval				measured For water-/brine-to-air	+		1						
Sound power level, indoor / outdoor		85	dB	heat pumps: Rated									
	L_{WA}	03	ub	brine or water flow			m³/h						
measured Emissions of nitrogen				rate, outdoor heat		_	111 / 11						
Emissions of nitrogen oxides (if applicable)	NO _x	-	mg/kWh	exchanger									
oxides (if applicable)				CACHAIIgei	1								
GWP of the refrigerant		2088	kg CO ₂ ep										
			(100 years)										
				ONSUMER PRODUCTS (T		*							
Contact details	· · · · · · · · · · · · · · · · · · ·												
Muang, Chonburi 20000, Thailand													
				fault degradation coefficient									
		_		ers, the test result and perfor									
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						4 .,						
Outdoor: PUHY-Outdoor heat exchanger				10	loor:PEFY-P50VMA3-E×	4 units						
Indoor heat exchanger o				_								
Type: compressor driver				_								
if applicable: driver of c				_								
Item	Symbol			_	Item S	Symbol		Value	Unit			
The first state of the first sta	Буппсот	T	T					7 4145				
Rated cooling capacity	$P_{\text{rated,c}}$	22.40	kW		Seasonal space cooling renergy efficiency	ls,c		307.0	%			
Declared cooling capa					Declared energy efficience	cy ratio or g	gas utiliz	ation ef	ficiency /			
outdoor temperatures T _j	and indoo	or 27º/19º	°C (dry/wet		auxiliary energy factor	for part	load at	t given	outdoor			
bulb)			_		temperatures T _j				_			
$T_j = +35$ °C	Pdc	22.40	kW		$T_j = +35 ^{\circ}\text{C}$	EER_d		5.01	%			
$T_{\rm j} = +30 {\rm ^{o}C}$	Pdc	16.51	kW		$T_j = +30 ^{\circ}\text{C}$	EER_d		6.52	%			
$T_i = +25 {}^{\circ}\text{C}$	Pdc	10.61	kW		-	EER_d		9.60	%			
$T_i = +20 {}^{\circ}\text{C}$	Pdc	7.22	kW		,	EER_d		13.50	%			
J			1						1			
Degradation co- efficient air	C_d	0.25	- -	ı								
Power consumption in n	'ower consumption in modes other than 'active mode'											
Off mode	P_{OFF}	0.069	kW		Crankcase heater mode	P_{CK}		0.029	kW			
	P_{TO}	0.029	kW		Standby mode	P_{SB}		0.069	kW			
			1		,							
Other items												
Capacity control	variable				For air-to-air air conditioner: Nominal air flow rate, outdoor measured	r	10200	m ³ /	/h			
Sound power level, outdoor	L_{WA}	75	dB									
if engine driven:	1		mg/kWh									
Emissions of nitrogen oxides	$\left \begin{array}{c} NO_x \\ \end{array} \right ^{-}$		fuel input GCV									
GWP of the refrigerant		2088	kg CO _{2 ep} (100 years)									
Contact details	MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. Contact details Amata Nakorn Industrial Estate, 700/406 Moo 7, Tambon Don Hua Roh, Amphur Muang, Chonburi 20000, Thailand											
** If C _d is not determined by measurement then the default degradation coefficient air conditioners shall be 0.25.												
					, the test result and perfor							
basis of the performance	e of the ou	tdoor uni	it, with a con	nł	pination of indoor unit(s) r	ecommende	ed by the	e manuf	acturer or			

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

Model(s): Information to Outdoor: PUHY					the information relates: loor:PEFY-P50VMA3-E×	A unita			
Outdoor heat exchanger				nc	1001. PEF 1-P30 VIVIA3-E×	4 units			
Indoor heat exchanger of				_					
Indication if the heater i				rv	heater no				
					son, parameters for the wa	rmer and c	older he	ating se	easons are
optional.		•			71			υ	
Item	Symbol	Value	Unit	_	Item	Symbol		Value	Unit
D-4-114:	D	22.40	1-337	ĺ	Seasonal space heating			175.0	0/
Rated heating capacity	rated,h	22.40	KW		energy efficiency	$\eta_{s,h}$		175.0	90
Declared heating capa	city for	nart load	at indoor		Declared coefficient of	•		-	
temperature 20 °C and o		_			efficiency / auxiliary en	ergy factor	for pa	rt load	at given
temperature 20°C and C	outdoor ter		- 1 j		outdoor temperatures T _j				_
$T_j = -7$ °C	Pdh	11.28	kW		$T_j = -7$ °C	COP_d		2.92	%
$T_j = +2 ^{\circ}C$	Pdh	6.87	kW		$T_j = +2 ^{\circ}C$	COP_d		4.11	<u></u>
$T_j = +7$ °C	Pdh	4.78	kW		$T_j = +7$ °C	COP_d		6.65	%
$T_{j} = + 12 {}^{\circ}\text{C}$	Pdh	6.47	kW		$T_{j} = + 12 {}^{\circ}\text{C}$	COP_d		8.11	%
$T_j = bivalent$	Pdh	12.75	1-337	İ	$T_j = bivalent$	COP_d		2.38],
temperature	run	12.75	kW	İ	temperature	COrd		2.36	%
T_j = operation limit	Pdh	13.10	kW	İ	T_j = operation limit	COP_d		2.16	%
For air-to-water heat					For water-to-air heat				1
pumps: $T_j = -15$ °C (if	Pdh	-	kW		pumps: $T_j = -15$ °C (if	COP_d		-	%
$T_{OL} < -20 {}^{\circ}\text{C}$				İ	$T_{\rm OL}$ < -20 °C)				
·			1		For water-to-air heat				1
Bivalent temperature	$T_{\rm biv}$	-10.0	°C	İ	pumps: Operation limit	T_{ol}		-	°C
				İ	temperature				
			1	İ					1
Degradation co-	· C	0.25	1						1
efficient heat pumps**	C_{dh}	0.25	-	İ					
		th o lo.	tirra mandal		Cymulau antawy baatan				•
Power consumption in n	nodes our	er man ac	_ live mode	İ	Supplementary heater				
Off mode	P_{OFF}	0.069	kW		Electric back-up	elbu		0.000	kW
	1 OFF	0.009]K VV		heating capacity *	elbu		0.000	K VV
Thermostat-off mode	P_{TO}	0.129	kW	İ	Type of energy input				
Crankcase heater mode	Pow	0.029	kW		Standby mode	P_{SB}		0.146	1-W
	- CK	0.027	K VV		Standoy mode	, SB		0.140	K VV
Other items									
					For air-to-air heat				
Capacity control	variable			İ	pumps: Nominal air	_	10200	m^3	/h
Capacity Control				İ	flow rate, outdoor		10200		
					measured				
Sound power level,			150	ĺ	For water-/brine-to-air				
indoor / outdoor	L_{WA}	78	dB	İ	heat pumps: Rated				
measured					brine or water flow	-	-	m ³	/h
Emissions of nitrogen	NO.	-	mg/kWh	İ	rate, outdoor heat				
oxides (if applicable)	^		0	L	exchanger				
GWP of the refrigerant		2088	kg CO ₂ ep						
dwr of the felligeralit		2000	(100 years)						
	MITSUE	ISHI EL	ECTRIC CC	10	NSUMER PRODUCTS (T	HAILAND) CO., L	TD.	
Contact details	1				, 700/406 Moo 7, Tambon				
			20000, Thai				,	L	
** If C _d is not determine					ult degradation coefficient	of heat pur	nps shal	l be 0.2	5.
	-				_	_	_		
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.	30	411	,		11 1110001 01111(0) 10		5 410		
T				_					

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

Model(s): Information to Outdoor: PUHY-					he information relates: loor: PEFY-P63VMA3-E×	1 units							
Outdoor heat exchanger				Iu	.01.FEF1 -F05 VIVIA5-L^	4 ums							
	Indoor heat exchanger of air conditioner: air												
	Type: compressor driven vapour compression												
	if applicable: driver of compressor: electric motor												
Item	Symbol	Value		_	Item S	Symbol		Value	Unit				
	~ ,	T						T	T				
Rated cooling capacity		28.00	kW		Seasonal space cooling η energy efficiency			297.0	%				
Declared cooling capa					Declared energy efficience		-						
outdoor temperatures T _j	and indoo	or 27º/19º	°C (dry/wet		auxiliary energy factor	for part	load at	t giver	ı outdoor				
bulb)			_		temperatures T _j				_				
J	Pdc	28.00	kW		$T_j = +35 ^{\circ}\text{C}$	EER _d		4.27	%				
$T_j = +30 ^{\circ}\text{C}$	Pdc	20.63	kW		$T_j = +30 ^{\circ}\text{C}$	EER _d		6.03	%				
$T_i = +25 {}^{\circ}\text{C}$	Pdc	13.26	kW		=	EER _d		9.00	%				
,	Pdc	7.22	kW		,	EER_d		13.50	%				
J			1		J	ū		-					
Degradation co- efficient air	C_d	0.25	-						-				
Power consumption in modes other than 'active mode'													
Off mode	P_{OFF}	0.069	$_{\mathrm{kW}}$		Crankcase heater mode	P_{CK}		0.029	kW				
	P _{TO}	0.029	kW		Standby mode	P_{SB}		0.069					
	10		 			SD			12				
Other items													
				┨	For air-to-air air	·		\Box					
Capacity control	variable				conditioner: Nominal air flow rate, outdoor measured	1- 1	11100	m³	/h				
Sound power level, outdoor	L _{WA}	78	dB										
if engine driven:			mg/kWh										
Emissions of nitrogen	NO_x	- !	fuel input										
oxides			GCV										
Emissions of nitrogen	12.70		7.3371	\dashv									
oxides (if applicable)	$ NO_x $	-	mg/kWh										
GWP of the refrigerant		2088	kg CO _{2 ep} (100 years)										
	MITSUE	ISHI EL	ECTRIC CO)N	SUMER PRODUCTS (T	HAILAND) CO., L	TD.					
Contact details					, 700/406 Moo 7, Tambon								
			20000, Thai					· 					
** If C _d is not determine	ed by mea	surement	then the def	aı	ult degradation coefficient	air condition	oners sha	all be 0.	.25.				
Where information relat	Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the												
					pination of indoor unit(s) re								

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

Model(s): Information to					the information relates: loor:PEFY-P63VMA3-E×	4 mits			
Outdoor: PUHY Outdoor heat exchanger				ma	100F: PEF 1-P03 VIVIA3-E*	4 units			
Indoor heat exchanger o				_					
Indication if the heater i				arv	heater no				
					son, parameters for the wa	rmer and c	older hea	ating se	easons are
optional.			5 6		/ 1			8	
Item	Symbol	Value	Unit		Item	Symbol		Value	Unit
D : 11 :: ':		20.00		11	Seasonal space heating				1
Rated heating capacity	rated,h	28.00	KW		energy efficiency	$\eta_{s,h}$		169.0	
Declared heating capa	city for	part load	l at indoor	rı ı	Declared coefficient of	•		-	
temperature 20 °C and c				11	efficiency / auxiliary en	ergy factor	r for par	rt load	at given
$T_i = -7$ °C	Pdh	14.21]kW		outdoor temperatures T_j $T_i = -7$ °C	COP_d	Γ	2.93	<u>%</u>
$T_i = +2 ^{\circ}\text{C}$	Pdh	8.65	kW		$T_i = +2 ^{\circ}\text{C}$	COP_d		3.96	70 %
$T_i = +7 ^{\circ}\text{C}$	Pdh	5.56	kW		$T_i = +7 ^{\circ}C$	COP_d		6.30	70 %
$T_i = +12 ^{\circ}\text{C}$	Pdh		kW		$T_i = +12 ^{\circ}\text{C}$		ŀ	7.23	70 %
$T_i = \text{bivalent}$	ruii	6.36	- K W		$T_j = 12$ C $T_j = bivalent$	COP_d	ŀ	7.23	- 70
temperature	Pdh	16.03	kW		temperature	COP_d		2.18	%
$T_j = $ operation limit	Pdh	14.00	kW		$T_j = $ operation limit	COP_d	ŀ	2.12	%
For air-to-water heat		14.00	- K VV		For water-to-air heat	COId		2,12	178
pumps: $T_i = -15$ °C (if			kW	1 1	pumps: $T_j = -15$ °C (if	COP_d		_	%
$T_{OL} < -20 ^{\circ}\text{C}$	1 GII		K VV		$T_{OL} < -20 ^{\circ}\text{C}$	COId		_	70
10L < - 20 C)		-	1		For water-to-air heat				1
Bivalent temperature	$T_{\rm biv}$	-10.0	°C	1 1	pumps: Operation limit	T_{ol}		_	$^{\circ}\mathrm{C}$
Bivaicht temperature	1 biv	-10.0		1 1	temperature	ı ol		_	
			-		temperature				1
Degradation co-			-						1
efficient heat pumps**	C_{dh}	0.25	-						
		_ ļ	ļ.	1					
Power consumption in n	nodes oth	er than 'ac	ctive mode'	Ш	Supplementary heater				
0.00	D	0.000], ,,,		Electric back-up	11		0.000], ,,,
Off mode	P_{OFF}	0.069	kW		heating capacity *	elbu		0.000	kW
Thermostat-off mode	P_{TO}	0.129	kW		Type of energy input				
Crankcase heater mode	P_{CK}	0.029	kW		Standby mode	P_{SB}		0.146	kW
Other items				┨					
other items				H	For air-to-air heat				
				1 1	pumps: Nominal air				
Capacity control	variable			1 1	flow rate, outdoor	-	11100	m ³	/h
				1 1	measured				
Sound power level,					For water-/brine-to-air				
indoor / outdoor	L_{WA}	80	dB		heat pumps: Rated				
measured					brine or water flow	-	-	m ³	/h
Emissions of nitrogen	NO		mg/kWh	П	rate, outdoor heat				
oxides (if applicable)	NO _x	•	ilig/K W II	Ш	exchanger				
CHID 64 6		2000	kg CO _{2 ep}						
GWP of the refrigerant		2088	(100 years)						
	MITSU	RISHI FI	ECTRIC CO	UV LL	L NSUMER PRODUCTS (T	L Hailand) CO 1 '	TD	
Contact details					, 700/406 Moo 7, Tambon		*		
Contact details			20000, Thai			Don Hua I	, <i>1</i> 1111	/11 UI	
** If C ₄ is not determine					ult degradation coefficient	of heat nur	nns shall	be 0.2	5.
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		.,		31

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

Model(s): Information to Outdoor: PUHY					the information relates:	6 unite				
Outdoor heat exchanger				.lu	OOL FEE I -F JU V IVIAJ-EA	O units				
Indoor heat exchanger o				_						
Type: compressor driver				_						
if applicable: driver of c				_						
Item	Symbol	Value		_	Item S	Symbol		Value	Unit	
Rated cooling capacity	P _{rated,c}	33.50	kW		Seasonal space cooling renergy efficiency	ls,c		287.0	%	
Declared cooling capa	city for	part loa	d at given		Declared energy efficience	cy ratio or g	gas utiliz	zation ef	ficiency /	
outdoor temperatures T _j					auxiliary energy factor	for part	load at	t given	outdoor	
bulb)			_		temperatures T _j				_	
$T_j = +35 ^{\circ}\mathrm{C}$	Pdc	33.50	kW		$T_j = +35 ^{\circ}\text{C}$	EER_d		4.33	%	
$T_{j} = +30 {}^{\circ}\text{C}$	Pdc	24.68	kW		$T_j = +30 ^{\circ}\text{C}$	EER_d		5.65	%	
$T_{j} = +25 {}^{\circ}\text{C}$	Pdc	15.87	kW		-	EER_d		8.50	%	
$T_i = +20 {}^{\circ}\text{C}$	Pdc	9.24	kW		,	EER_d		13.00	%	
,			1		,				1	
Degradation co- efficient air	C_d	0.25	-							
Power consumption in modes other than 'active mode'										
Off mode	P_{OFF}	0.069	kW		Crankcase heater mode	P_{CK}		0.029	kW	
	P_{TO}	0.029	kW		Standby mode	P_{SB}		0.069	kW	
			1		,					
Other items										
Capacity control	variable				For air-to-air air conditioner: Nominal air flow rate, outdoor measured	r	12000	m³/	/h	
Sound power level, outdoor	L_{WA}	80	dB							
if engine driven: Emissions of nitrogen oxides	1 1		mg/kWh fuel input GCV							
GWP of the refrigerant		2088	kg CO _{2 ep} (100 years)							
Contact details	Amata N Muang, O	lakorn Ind Chonburi	lustrial Estat 20000, Thai	te, ila		Don Hua R	Roh, Am	phur		
	-				ult degradation coefficient					
					, the test result and perfor					
basis of the performance	e of the or	ıtdoor uni	t, with a con	nŀ	oination of indoor unit(s) r	ecommende	ed by the	e manuf	acturer or	

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Model(s): Information to identify the model(s) to which the information relates: Outdoor: PUHY-EP300YNW-A1 (-BS) Indoor: PEFY-P50VMA3-E×6 units											
				nc	loor:PEFY-P50VMA3-E×	6 units					
Outdoor heat exchanger				_							
Indoor heat exchanger of Indication if the heater is					heater no						
					son, parameters for the wa	rmer and c	older he	eating se	easons are		
optional.	iarea for	ine averag	50 mouning st	Ju	son, parameters for the wa	inioi una o	01401 110	ating st	asons are		
Item	Symbol	Value	Unit	_	Item	Symbol		Value	Unit		
Datad haating conscitu	D	33.50	1-337		Seasonal space heating	2		165.0	0/		
Rated heating capacity	1 rated,h	33.30	K VV		energy efficiency	$\eta_{s,h}$					
Declared heating capa	city for	part load	l at indoor		Declared coefficient of	_		_			
temperature 20 °C and c	-	_			efficiency / auxiliary en	ergy factor	for pa	ırt load	at given		
_			,		outdoor temperatures T _j	COR		2 (1	ا ،		
$T_j = -7 ^{\circ}\text{C}$	Pdh	16.92	kW		$T_j = -7 ^{\circ}\text{C}$	COP_d		2.61	%		
$T_j = +2$ °C	Pdh	10.30	kW		$T_j = +2$ °C	COP_d		3.68	%		
$T_j = +7 ^{\circ}C$	Pdh	6.62	kW		$T_j = +7 ^{\circ}C$	COP_d		7.45	%		
$T_j = +12 ^{\circ}\text{C}$	Pdh	8.58	kW		$T_j = +12 ^{\circ}\text{C}$	COP_d		7.45	%		
$T_j = bivalent$	Pdh	19.30	kW		$T_j = bivalent$	COP_d		1.97	9/0		
temperature T_i = operation limit	Pdh	17.00	kW		temperature $T_i = \text{operation limit}$	COP_d		1.78	%		
For air-to-water heat		17.00	- K VV		For water-to-air heat	COI d		1.70	 7"		
pumps: $T_j = -15$ °C (if			kW		pumps: $T_j = -15$ °C (if	COP_d		L	%		
$T_{OL} < -20 ^{\circ}\text{C}$	1 411		IK ***		$T_{OL} < -20$ °C)	cord			'"		
100 20 0)			1		For water-to-air heat				1		
Bivalent temperature	T_{biv}	-10.0	°C		pumps: Operation limit	T_{ol}		_	$ _{^{\circ}C}$		
1	011				temperature	OI .					
			1		1				1		
Degradation co-	· C	0.25	1						1		
efficient heat pumps**	C_{dh}	0.25	-								
Power consumption in n	nodes oth	er than 'ac	ctive mode'		Supplementary heater						
			7						, l		
Off mode	P_{OFF}	0.069	kW		Electric back-up	elbu		0.000	kW		
Thermostat-off mode	P_{TO}	0.129	1-337		heating capacity * Type of energy input						
Thermostat-off mode	1 TO	0.129	kW		Type of energy input						
Crankcase heater mode	P_{CK}	0.029	kW		Standby mode	P_{SB}		0.146	kW		
Other items		_									
				Г	For air-to-air heat						
Capacity control	variable				pumps: Nominal air		14400	m^3	/h		
Capacity control	Variable				flow rate, outdoor	l ⁻	14400	1111	/11		
	L.,			Ľ	measured						
Sound power level,		0.4	175		For water-/brine-to-air						
indoor / outdoor	L_{WA}	84	dB		heat pumps: Rated			2	, l		
measured				H	brine or water flow	-	-	m³	/n		
Emissions of nitrogen oxides (if applicable)	NO _x	-	mg/kWh		rate, outdoor heat exchanger						
oxides (if applicable)				H	CACHAIIgei						
GWP of the refrigerant		2088	kg CO ₂ ep								
			(100 years)	L							
					SUMER PRODUCTS (T						
Contact details					, 700/406 Moo 7, Tambon	Don Hua R	oh, Am	phur			
** ICC			20000, That			-£1. ·	1 1	11. 02			
					ult degradation coefficient						
	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.	e or the ot	atdoor un	u, willi a coi	.110	omation of midoor unit(s) re	commende	a by ine	manul	acturer or		
importer.											

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

Model(s): Information to					he information relates: EFY-P63VMA3-E×4 unit	~ DEEA D	50VMA	2 E×2 1	mita	
Outdoor heat exchanger				: r	EF Y-F03 V MA3-E^4 umi	S, PEF 1 - F.	30 v ivi <i>i</i> a.	3-E^∠ L	ınııs	
Indoor heat exchanger o				_						
Type: compressor driver				_						
if applicable: driver of c				_						
Item	Symbol	Value	Unit	_	Item S	ymbol		Value	Unit	
Rated cooling capacity	P _{rated,c}	40.00	kW		Seasonal space cooling η energy efficiency	s,c		278.0	%	
Declared cooling capa	city for	part load	d at given	. [Declared energy efficienc	y ratio or g	as utiliz	ation ef	ficiency /	
outdoor temperatures T _j	and indo	or 27°/19°	°C (dry/wet		auxiliary energy factor	for part	load at	t given	outdoor	
bulb)			_		temperatures T _j				_	
$T_j = +35 ^{\circ}\mathrm{C}$	Pdc	40.00	kW		J	ER_d	I	4.01	%	
$T_{j} = +30 {}^{\circ}\text{C}$	Pdc	29.47	kW		J	ER_d	I	5.28	%	
$T_{j} = +25 {}^{\circ}\text{C}$	Pdc	18.95	kW		$T_j = +25 ^{\circ}C$	ER_d	I	8.35	%	
$T_{j} = +20 {}^{\circ}\text{C}$	Pdc	9.97	kW		$T_j = +20 ^{\circ}\text{C}$	ER_d	I	13.50	%	
]				I]	
Degradation co- efficient air	C_d	0.25	-							
Power consumption in modes other than 'active mode'										
Off mode	P_{OFF}	0.095	kW		Crankcase heater mode	P_{CK}		0.039	kW	
Thermostat-off mode	P_{TO}	0.039	kW		Standby mode	P_{SB}		0.095	kW	
Other items	-			\rfloor						
Capacity control	variable				For air-to-air air conditioner: Nominal air flow rate, outdoor measured	_	15000	m^3	⁄h	
Sound power level, outdoor	L_{WA}	80	dB							
if engine driven: Emissions of nitrogen oxides			mg/kWh fuel input GCV							
GWP of the refrigerant		2088	kg CO _{2 ep} (100 years)							
Contact details	MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. Contact details Amata Nakorn Industrial Estate, 700/406 Moo 7, Tambon Don Hua Roh, Amphur Muang, Chonburi 20000, Thailand									
** If C _d is not determined by measurement then the default degradation coefficient air conditioners shall be 0.25. Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the										
basis of the performance	e of the or	atdoor uni	it, with a con	nb	ination of indoor unit(s) re	commende	ed by the	: manut	acturer or	

⁽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-EP350YNW-A1 (-BS) Indoor: PEFY-P63VMA3-E×4 units, PEFY-P50VMA3-E×2 units Outdoor heat exchanger of air conditioner: air Indoor heat exchanger of air conditioner: air Indication if the heater is equipped with a supplementary heater: no Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional. Item Symbol Value Unit Item Symbol Value Unit Seasonal space heating 40.00 kW 173.0 % Rated heating capacity P_{rated,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 20.30 $T_i = -7$ °C COP_d 2.70 kW % $T_i = +2 \, ^{\circ}C$ Pdh 12.36 kW $T_i = +2 \, ^{\circ}C$ 3.99 % COP_d $T_i = +7$ °C Pdh $T_i = +7$ °C COP_d 7.94 kW % $T_{i} = + 12 \, {}^{\circ}\text{C}$ Pdh 8.61 kW $T_{i} = +12 \, {}^{\circ}C$ COP_d 8.30 % $T_i = bivalent$ $T_i = bivalent$ Pdh 23.00 COP_d 2.02 % kW temperature temperature T_i = operation limit Pdh 16.60 kW $T_i = operation limit$ COP_d 1.72 0/0 For air-to-water heat For water-to-air heat pumps: $T_i = -15$ °C (if pumps: $T_i = -15$ °C (if Pdh kW COP_d % $T_{OL} < -20 \, {}^{\circ}C)$ $T_{OL} < -20$ °C) For water-to-air heat °C Bivalent temperature T_{biv} -10.0 pumps: Operation limit T_{ol} $^{\circ}C$ temperature Degradation 0.25 efficient heat pumps** Power consumption in modes other than 'active mode' Supplementary heater Electric back-up Off mode POFF 0.095 kW 0.000kW elbu heating capacity * 0.156 Thermostat-off mode P_{TO} kW Type of energy input Crankcase heater mode P_{CK} 0.039 kW Standby mode P_{SB} 0.173 kW Other items For air-to-air heat pumps: Nominal air Capacity control variable 16200 m³/h flow rate, outdoor measured For water-/brine-to-air Sound power level. 83 dΒ Rated indoor outdoor L_{WA} pumps: brine or water flow m³/h measured Emissions of nitrogen rate, outdoor heat NO. mg/kWh oxides (if applicable) exchanger kg CO₂ ep 2088 GWP of the refrigerant (100 years) MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. Amata Nakorn Industrial Estate, 700/406 Moo 7, Tambon Don Hua Roh, Amphur Contact details Muang, Chonburi 20000, Thailand ** If C_d is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25. Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or

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

Model(s): Information to Outdoor: PUHY-1	•		` /	the information relates: : PEFY-P71VMA3-E×5 u	units, PEFY-I	P50VMA	3-E×1	unit			
Outdoor heat exchanger	of air cor	iditioner:	air								
Indoor heat exchanger o											
Type: compressor driver											
if applicable: driver of c	_										
Item	Symbol	Value	Unit	Item	Symbol		Value	Unit			
Rated cooling capacity	$P_{\text{rated,c}}$	45.00	kW	Seasonal space cooling energy efficiency	9 $\eta_{\mathrm{s,c}}$		277.0	%			
Declared cooling capa outdoor temperatures T _j bulb)		or 27°/19°		Declared energy efficies auxiliary energy fact temperatures T _j		load at		outdoor			
J			-	$T_j = +35 ^{\circ}\text{C}$				%			
J	Pdc		kW	$T_j = +30 ^{\circ}\text{C}$	EER _d		5.25	%			
J	Pdc	21.32	kW	$T_j = +25$ °C	EER _d		8.20	%			
$T_j = +20 ^{\circ}C$	Pdc	12.08	kW	$T_j = +20 ^{\circ}C$	EER_d		14.60	%			
Degradation co- efficient air	C_d	0.25	<u>-</u>					-			
Power consumption in n	nodes othe	er than 'ac	ctive mode'								
Off mode	P_{OFF}	0.095	kW	Crankcase heater mode	P_{CK}		0.039	kW			
Thermostat-off mode	P_{TO}	0.039	kW	Standby mode	P_{SB}		0.095	kW			
Other items											
Capacity control	variable			For air-to-air conditioner: Nominal flow rate, outdomeasured	1-	16200	m^3	'h			
Sound power level, outdoor	L _{WA}	82	dB								
if engine driven: Emissions of nitrogen oxides	1 1	-	mg/kWh fuel input GCV								
GWP of the refrigerant		2088	kg CO _{2 ep} (100 years)								
Contact details	MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. Contact details Amata Nakorn Industrial Estate, 700/406 Moo 7, Tambon Don Hua Roh, Amphur Muang, Chonburi 20000, Thailand										
** If C _d is not determine	ed by meas	surement	then the defa	ault degradation coefficie	ent air conditi	oners sha	ıll be 0.	25.			
				rs, the test result and per abination of indoor unit(s							

⁽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-EP400YNW-A1(-BS) Indoor: PEFY-P71VMA3-E×5 units, PEFY-P50VMA3-E×1 unit Outdoor heat exchanger of air conditioner: air Indoor heat exchanger of air conditioner: air Indication if the heater is equipped with a supplementary heater: no Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional. Item Symbol Value Unit Item Symbol Value Unit Seasonal space heating 45.00 kW 168.0 % Rated heating capacity P_{rated,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 22.56 $T_i = -7$ °C COP_d 2.72 kW % $T_i = +2 \, ^{\circ}C$ Pdh $T_i = +2 \, ^{\circ}C$ % 13.73 kW COP_d 3.89 $T_i = +7$ °C Pdh $T_i = +7$ °C COP_d 8.83 kW 6.72 % $T_{i} = + 12 \, {}^{\circ}\text{C}$ Pdh 10.15 kW $T_{i} = +12 \, {}^{\circ}C$ COP_d 7.36 % $T_i = bivalent$ $T_i = bivalent$ Pdh 25.50 COP_d % kW 2.06 temperature temperature T_i = operation limit 21.70 kW $T_i = operation limit$ COP_d 2.21 0/0 For air-to-water heat For water-to-air heat pumps: $T_i = -15$ °C (if pumps: $T_i = -15$ °C (if Pdh kW COP_d % $T_{OL} < -20 \, {}^{\circ}C)$ $T_{OL} < -20$ °C) For water-to-air heat Bivalent temperature T_{biv} -10.0 $^{\circ}C$ pumps: Operation limit T_{ol} $^{\circ}C$ temperature Degradation 0.25 efficient heat pumps** Power consumption in modes other than 'active mode' Supplementary heater Electric back-up Off mode POFF 0.095 kW 0.000kW elbu heating capacity * 0.156 Thermostat-off mode P_{TO} kW Type of energy input Crankcase heater mode P_{CK} 0.039 kW Standby mode P_{SB} 0.173 kW Other items For air-to-air heat pumps: Nominal air Capacity control variable 16200 m³/h flow rate, outdoor measured For water-/brine-to-air Sound power level. 84 dΒ Rated indoor outdoor L_{WA} pumps: brine or water flow m³/h measured Emissions of nitrogen rate, outdoor heat NO. mg/kWh oxides (if applicable) exchanger kg CO₂ ep 2088 GWP of the refrigerant (100 years) MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. Amata Nakorn Industrial Estate, 700/406 Moo 7, Tambon Don Hua Roh, Amphur Contact details Muang, Chonburi 20000, Thailand ** If C_d is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25. Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or

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

Model(s): Information to						te PEFY-P	50VMA	3-E×41	ınits				
	Outdoor: PUHY-EP450YNW-A1(-BS) Indoor: PEFY-P63VMA3-E×4 units, PEFY-P50VMA3-E×4 units Outdoor heat exchanger of air conditioner: air												
Indoor heat exchanger o				_									
Type: compressor driver				_									
if applicable: driver of c				_									
Item	Symbol	Value	Unit	_	Item S	Symbol		Value	Unit				
Rated cooling capacity	P _{rated,c}	50.00	kW	1	Seasonal space cooling energy efficiency	N _{s,c}		279.0	%				
Declared cooling capa	city for	part load	d at given		Declared energy efficience	cy ratio or g	gas utiliz	ation et	ficiency /				
outdoor temperatures T _j	and indoo	or 27°/19°	°C (dry/wet		auxiliary energy factor	for part	load at	t given	outdoor				
bulb)			_		temperatures T _j				_				
$T_j = +35$ °C	Pdc	50.00	kW		$T_j = +35 ^{\circ}\text{C}$	EER _d	I	3.61	%				
$T_{\rm j} = +30 {\rm ^{o}C}$	Pdc	36.84	kW		$T_j = +30 ^{\circ}\text{C}$	EER_d	I	5.19	%				
$T_i = +25 {}^{\circ}\text{C}$	Pdc	23.68	kW			EER _d	I	7.82	%				
$T_i = +20 {}^{\circ}\text{C}$	Pdc	12.09	kW		,	EER _d	١	16.28	%				
J			1		J		١		1				
Degradation co- efficient air	C _d	0.25	<u> </u>										
Power consumption in modes other than 'active mode'													
			, l			_							
	P _{OFF}		kW		Crankcase heater mode	P_{CK}			kW				
Thermostat-off mode	P_{TO}	0.039	kW		Standby mode	P_{SB}		0.095	kW				
Other items	ı			\dashv	T cin to cin ci	I							
Capacity control	variable				For air-to-air ai conditioner: Nominal ai flow rate, outdoo measured	r	17100	m^3	/h				
Sound power level, outdoor	L _{WA}	84	dB										
if engine driven:			mg/kWh										
Emissions of nitrogen			fuel input										
oxides			GCV										
	 		kg CO _{2 ep}	\dashv		+							
GWP of the refrigerant		2088	(100 years)	I									
					SUMER PRODUCTS (T								
Contact details					, 700/406 Moo 7, Tambon	Don Hua R	Roh, Amj	phur					
			20000, Thai										
** If C_d is not determined by measurement then the default degradation coefficient air conditioners shall be 0.25. Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the													
basis of the performance	of the ou	tdoor uni	t, with a con	nt	oination of indoor unit(s) r	ecommende	ed by the	: manut	acturer or				

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

PRODUCT INFORMATION(1) Model(s): Information to identify the model(s) to which the information relates: Outdoor: PUHY-EP450YNW-A1 (-BS) Indoor: PEFY-P63VMA3-E×4 units, PEFY-P50VMA3-E×4 units Outdoor heat exchanger of air conditioner: air Indoor heat exchanger of air conditioner: air Indication if the heater is equipped with a supplementary heater: no Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional. Item Symbol Value Unit Item Symbol Value Unit Seasonal space heating 50.00 kW 163.0 % Rated heating capacity P_{rated,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 25.26 $T_i = -7$ °C COP_d 2.61 kW % $T_i = +2 \, ^{\circ}C$ Pdh 15.38 $T_i = +2 \, ^{\circ}C$ % kW COP_d 3.67 $T_i = +7$ °C Pdh 9.89 $T_i = +7$ °C COP_d kW 6.80 % $T_{i} = + 12 \, {}^{\circ}\text{C}$ Pdh 10.53 kW $T_{i} = +12 \, {}^{\circ}C$ COP_d 8.44 % $T_i = bivalent$ $T_i = bivalent$ Pdh 28.60 COP_d 1.97 % kW temperature temperature T_i = operation limit Pdh 24.60 kW $T_i = operation limit$ COP_d 2.13 0/0 For air-to-water heat For water-to-air heat pumps: $T_i = -15$ °C (if pumps: $T_i = -15$ °C (if Pdh kW COP_d % $T_{OL} < -20 \, {}^{\circ}C)$ $T_{OL} < -20$ °C) For water-to-air heat °C Bivalent temperature T_{biv} -10.0 pumps: Operation limit T_{ol} $^{\circ}C$ temperature Degradation 0.25 efficient heat pumps** Power consumption in modes other than 'active mode' Supplementary heater Electric back-up Off mode POFF 0.095 kW 0.000kW elbu heating capacity * 0.156 Thermostat-off mode P_{TO} kW Type of energy input Crankcase heater mode P_{CK} 0.039 kW Standby mode P_{SB} 0.173 kW Other items For air-to-air heat pumps: Nominal air Capacity control variable 18300 m³/h flow rate, outdoor measured For water-/brine-to-air Sound power level. 88 dΒ Rated indoor outdoor L_{WA} pumps: brine or water flow m³/h measured Emissions of nitrogen rate, outdoor heat NO. mg/kWh oxides (if applicable) exchanger kg CO₂ ep 2088 GWP of the refrigerant (100 years) MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. Amata Nakorn Industrial Estate, 700/406 Moo 7, Tambon Don Hua Roh, Amphur Contact details Muang, Chonburi 20000, Thailand ** If C_d is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25. Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or

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

Model(s): Information to	•		` /			2 4				
Outdoor: PUHY-Outdoor heat exchanger				10	loor:PEFY-P63VMA3-E>	<8 units				
Indoor heat exchanger o				_						
Type: compressor driver				_						
if applicable: driver of c				_						
Item	Symbol	Value		_	Item S	Symbol		Value	Unit	
The first state of the first sta	Буппоот	T	T					1 4144		
Rated cooling capacity	$P_{\text{rated,c}}$	56.00	kW		Seasonal space cooling energy efficiency	N _{s,c}		259.0	%	
Declared cooling capa					Declared energy efficient	cy ratio or g	gas utiliz	ation ef	ficiency /	
outdoor temperatures T _j	and indo	or 27º/19º	°C (dry/wet		auxiliary energy factor	for part	load at	t given	outdoor	
bulb)			_		temperatures T _j				_	
$T_j = +35$ °C	Pdc	56.00	kW		$T_j = +35 ^{\circ}\text{C}$	EER _d		3.38	%	
$T_{\rm j} = +30 {\rm ^{o}C}$	Pdc	41.26	kW		$T_{j} = +30 {}^{\circ}\text{C}$	EER _d		4.77	%	
$T_i = +25 {}^{\circ}\text{C}$	Pdc	26.53	kW			EER _d		7.48	%	
$T_i = +20 {}^{\circ}\text{C}$	Pdc	13.22	kW		,	EER _d		13.32	%	
,			1		J				1	
Degradation co- efficient air	· C _d	0.25	<u>-</u>							
Power consumption in modes other than 'active mode'										
Off mode	P_{OFF}	0.095	kW		Crankcase heater mode	P_{CK}		0.039	kW	
	P_{TO}	0.039	kW		Standby mode	P_{SB}		0.095	kW	
			1		,					
Other items										
Capacity control	variable				For air-to-air ai conditioner: Nominal ai flow rate, outdoo measured	r	18900	m³/	/h	
Sound power level, outdoor	L_{WA}	82	dB							
if engine driven:			mg/kWh							
Emissions of nitrogen	NO _x	-	fuel input							
oxides			GCV							
GWP of the refrigerant		2088	kg CO _{2 ep} (100 years)							
					SUMER PRODUCTS (T		/			
Contact details					, 700/406 Moo 7, Tambon	Don Hua R	Roh, Am	phur		
** ICC :- not determine			20000, Thai			: : diti		11 1 0	25	
	-				ult degradation coefficient					
					, the test result and performance in the second control of the sec					
pasis of the performance	e of the ou	aaoor uni	it, with a con	nt	oination of indoor unit(s) r	ecommenae	ea by the	: manui	acturer or	

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

Model(s): Information to						.0 :				
Outdoor: PUHY				nc	loor: PEFY-P63VMA3-E×	8 units				
Outdoor heat exchanger										
Indoor heat exchanger of Indication if the heater is				173	heater: no					
					son, parameters for the wa	rmer and c	older he	ating s	seasons are	
optional.	iarea ior	uic averag	se nearing s	cu	son, parameters for the wa	imer and c	order ne	utilig t	cusons are	
Item	Symbol	Value	Unit		Item	Symbol		Valu	e Unit	
	<u> </u>			1	Seasonal space heating	Symoor			1	
Rated heating capacity	P _{rated,h}	56.00	kW		energy efficiency	$\eta_{s,h}$		157.0		
Declared heating capa	city for	part load	l at indoor		Declared coefficient of			_		
temperature 20 °C and c					efficiency / auxiliary en	ergy factor	r for pa	rt loa	d at given	
			,		outdoor temperatures T _j				_	
$T_j = -7$ °C	Pdh	28.42	kW		$T_j = -7 ^{\circ}\text{C}$	COP_d		2.61	%	
$T_j = +2$ °C	Pdh	17.30	kW		$T_j = +2$ °C	COP_d		3.42	- %	
$T_j = +7 ^{\circ}C$	Pdh	11.12	kW		$T_j = +7 ^{\circ}C$	COP_d		6.84	%	
$T_j = +12 ^{\circ}\text{C}$	Pdh	12.53	kW		$T_j = +12 ^{\circ}\text{C}$	COP_d		8.10	_ %	
$T_j = bivalent$	Pdh	32.20	kW		$T_j = bivalent$	COP_d		2.02	9/0	
temperature			1		temperature	_			4	
T_j = operation limit	Pdh	29.60	kW		$T_j = \text{operation limit}$	COP_d		2.31		
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		-	%	
$T_{OL} < -20 ^{\circ}\text{C}$					$T_{OL} < -20 ^{\circ}C)$				_	
					For water-to-air heat					
Bivalent temperature	T_{biv}	-10.0	°C		pumps: Operation limit	T_{ol}		-	°C	
					temperature					
Degradation co-	·C	0.25								
efficient heat pumps**	C_{dh}	0.25	-							
Power consumption in n	nodes oth	er than 'a	etive mode!		Supplementary heater					
ower consumption in i	nodes our		-						_	
Off mode	P_{OFF}	0.095	kW		Electric back-up	elbu		0.000	kW	
			4		heating capacity *			0.000	IK **	
Thermostat-off mode	P_{TO}	0.164	kW		Type of energy input					
Crankcase heater mode	P_{CK}	0.039	kW		Standby mode	P_{SB}		0.173	kW	
				ļ	,	SB				
Other items				L	For single single for the					
					For air-to-air heat					
Capacity control	variable				pumps: Nominal air	-	21900	m	n^3/h	
					flow rate, outdoor					
C 1 1 1				L	measured For water-/brine-to-air					
Sound power level,		0.5	10							
indoor / outdoor	L_{WA}	85	dB		heat pumps: Rated				2./1	
measured				L	brine or water flow	-	-	lm	1 ³ /h	
Emissions of nitrogen	NO _v	_	mg/kWh		rate, outdoor heat					
oxides (if applicable)	^				exchanger					
GWP of the refrigerant		2088	kg CO _{2 ep}							
owr of the felligeralit		2000	(100 years)							
	MITSUI	BISHI EL	ECTRIC CO)N	NSUMER PRODUCTS (T	HAILAND) CO I	TD.		
Contact details	1				, 700/406 Moo 7, Tambon					
	1		20000, Tha			20111111111111		P1101		
** If C ₄ is not determine						of heat nur	nps shal	1 be 0 '	25.	
	** 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.	2 21 410 01		,			_ ,	j tile			
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⁽¹⁾ This information is based on COMMISSION REGULATION(EU)2016/2281

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