PRODUCT INFORMATION PUHY-P***YKD.TH (-BS) For Europe Regulation

Model(s): Information t Outdoor : PUHY				which the information relates : Indoor : PEFY-P50VMHS2-E×4 units	
Outdoor heat exchanger					
Indoor heat exchanger of					
Type: compressor drive					
if applicable: driver of c					
Item	Symbol			Item Symbol Value U	Unit
	,			Seasonal space	
Rated cooling capacity	P _{rated,c}	22.40	kW	cooling energy efficiency s,c 287.4 9	%
Declared cooling capac outdoor temperatures (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficient auxiliary energy factor for part load at given out temperatures T _i	
$T_{j} = +35 \ ^{\circ}C$	Pdc	22.40	kW		%
$T_{j} = +30 ^{\circ}C$	Pdc	16.51			%
$T_{j} = +25 \ ^{\circ}C$	Pdc	10.62			%
$T_j = +20 \ ^{\circ}C$	Pdc	6.96	kW		%
Degradation co- efficient air conditioners**	C_d	0.25	-		
Power consumption in mode'	modes of	other that	an 'active		
Off mode Thermostat-off mode	P _{OFF} P _{TO}	0.000 0.076		Crankcase heater mode P_{CK} 0.032kStandby mode P_{SB} 0.070k	
Other items	[
Capacity control	variable	2		For air-to-air air conditioner: Nominal air flow rate, outdoor - 10500 m ³ /h measured	1
Sound power level, outdoor	L _{WA}	77.0	dB		
if engine driven: Emissions of nitrogen oxides	NOx	-	mg/kWh fuel input GCV		
GWP of the refrigerant		2088	kg CO _{2 eq} (100 years)		
Contact details	Amata	City C		C CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 Moo 7, Tambon Don Hua Roh, Amphur Mu 1	lang,
Where information rela	ed by me tes to mu mance o	easurem alti-split	ent then th air condit	e default degradation coefficient air conditioners shall be 0. ioners, the test result and performance data may be obtaine it, with a combination of indoor unit(s) recommended by	ed on

Information to identify Outdoor : PUHY				information relates : Indoor : PEFY-P50	$WMHS2 E \times 4$ ur	aite		
Outdoor heat exchanger) v Ivii 152-12×4 ui	ints		
Indoor heat exchanger of								
Indication if the heater				nentary heater: no				
				eating season, parameters	for the warme	r and c	older h	neating
seasons are optional.			-					-
Item	Symbo	l Value	Unit	Item	Symbol		Value	Unit
Rated heating capacity	$P_{\text{rated},h}$	22.40	kW	Seasonal space heating energy efficiency	s,h		161.8	%
Declared heating capac temperature 20 °C and				Declared coefficient of efficiency / auxiliary e outdoor temperatures T ₁				
$T_{j} = -7 \ ^{\circ}C$	Pdh	19.73	kW	$T_j = -7 ^{\circ}C$	COP _d		2.86	%
$T_j = +2 \ ^{\circ}C$	Pdh	12.11	kW	$T_j = +2 \ ^{\circ}C$	COP _d		3.88	%
$T_j = +7 \ ^{\circ}C$	Pdh	7.69	kW	$T_{j} = +7 \ ^{\circ}C$	COP _d		5.38	%
$T_{j} = +12 ^{\circ}C$	Pdh	5.68	kW	$T_{j} = +12 \ ^{\circ}C$	COP _d		7.09	%
$T_j = bivalent$	Pdh	21.71	1-337	$T_j = bivalent$	COP _d		2.54	<u>%</u>
temperature	Pun	21./1	K VV	temperature	COPd		2.54	~/0
$T_j = operation limit$	Pdh	15.88	kW	T_j = operation limit	COP _d		1.84	%
For air-to-water heat	D !!			For water-to-air heat	000			A (
pumps: T _j = - 15 °C (if T _{OL} < - 20 °C)	Pdh	-	kW	pumps: $T_j = -15$ °C (if $T_{OL} < -20$ °C)	COPd		-	%
Bivalent temperature	T_{biv}	-9.2	°C	For water-to-air heat pumps: Operation limit temperature	T_{ol}		-	°C
Degradation co- efficient heat pumps**	C _{dh}	0.25	-					
Power consumption in mode'	modes	other the	an 'active	Supplementary heater				_
Off mode	P _{OFF}	0.000	kW	Electric back-up heating capacity *	elbu		0.000	kW
Thermostat-off mode	P _{TO}	0.076	kW	Type of energy input				
Crankcase heater mode	Рск	0.032	kW	Standby mode	P _{SB}		0.070	kW
Other items								
				For air-to-air heat pumps: Nominal air				
Capacity control	variabl	e		flow rate, outdoor measured	-	10500	m	ı³∕h
Sound power level, indoor / outdoor measured	L _{WA}	77.0	dB	For water-/brine-to-air heat pumps: Rated				
Emissions of nitrogen oxides (if applicable)	NO _x	-	mg/kWh	brine or water flow rate, outdoor heat	-	-	m	ı³/h
GWP of the refrigerant		2088	kg CO _{2 eq} (100 years)	exchanger				
Contact details	Amata	City C		C CONSUMER PRODUC 700/406 Moo 7, Tambo d				Muang,
Where information rela	ed by m tes to n nce of	neasuren nulti-spli	nent then the the the the the the the tent of tent	ne default degradation coef aps, the test result and perf with a combination of	formance data m	ay be ob	otained	on the

Model(s): Information t Outdoor : PUHY				which the information relates : Indoor : PEFY-P63VMHS2-E×4 units	
Outdoor heat exchanger					
Indoor heat exchanger of					
Type: compressor drive					
if applicable: driver of c					
Item	Symbo	l Value	Unit	Item Symbol Value	e Unit
				Seasonal space	
Rated cooling capacity	P _{rated,c}	28.00	kW	cooling energy efficiency s,c 295.0	%
Declared cooling capac outdoor temperatures (dry/wet bulb)				Declared energy efficiency ratio or gas utilization effic auxiliary energy factor for part load at given temperatures T _i	
$T_i = +35 $ °C	Pdc	28.00	ĿW	$T_{j} = +35 \text{ °C} \qquad \text{EER}_{d} \qquad \qquad$	<u>%</u>
$T_{j} = +30 \text{ °C}$ $T_{j} = +30 \text{ °C}$	Pdc	20.64		$T_1 = +30 \text{ °C}$ EER _d 4.70 6.29	70 %
$T_{j} = +36 \text{ °C}$ $T_{j} = +25 \text{ °C}$	Pdc	13.28		$T_1 = +35 \text{ °C}$ EER_d 9.39	%
$T_j = +20$ °C	Pdc	6.77	kW	$T_j = +20 ^{\circ}\text{C}$ EER _d 11.43	
Degradation co- efficient air conditioners**	C_d	0.25	-		-
Power consumption in mode'	modes	other th	an 'active		
Off mode Thermostat-off mode	P _{OFF} P _{TO}	0.000 0.076		Crankcase heater modePCK0.032Standby modePSB0.070	kW kW
Other items					
Capacity control	variabl	e		For air-to-air air conditioner: Nominal air flow rate, outdoor - 10500 m measured	ı³∕h
Sound power level, outdoor	L _{WA}	78.0	dB		
if engine driven: Emissions of nitrogen oxides	NO _x	-	mg/kWh fuel input GCV		
GWP of the refrigerant		2088	kg CO _{2 eq} (100 years)		
Contact details	Amata	City C		C CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 Moo 7, Tambon Don Hua Roh, Amphur 1 d	Muang,
Where information rela	ed by m tes to m mance of	easurem ulti-split	ent then th t air condit	te default degradation coefficient air conditioners shall be tioners, the test result and performance data may be obta it, with a combination of indoor unit(s) recommended	ined on

Information to identify					VALIS2 EVA um			
Outdoor : PUHY Outdoor heat exchanger				Indoor : PEFY-P63	VMH52-E×4 un	itts		
Indoor heat exchanger								
Indication if the heater				nentary heater: no				
				eating season, parameters	for the warmer	and co	lder l	neating
seasons are optional.		101 110	average ii	anng season, parameters	101 110 (1110)			each g
Item	Symbo	ol Valu	e Unit	Item	Symbol		Valu	e Unit
Rated heating capacity	D	28.00	kW	Seasonal space heating			151.8	06
Kated heating capacity	r rated,h	28.00	K VV	energy efficiency	s,h			
Declared heating capac	ity for 1	hart load	at indoor	Declared coefficient of				
temperature 20 °C and				efficiency / auxiliary e		part lo	oad at	given
_			-	outdoor temperatures T_j				
$T_j = -7 \ ^{\circ}C$	Pdh	23.60		$T_j = -7 \ ^{\circ}C$	COPd		2.61	%
$T_j = +2 °C$	Pdh	-	kW	$T_j = +2 °C$	COP _d		3.58	<u>%</u>
$T_j = +7 °C$	Pdh	9.70		$T_j = +7 °C$	COPd		5.29	%
$T_j = +12 \ ^{\circ}C$	Pdh	5.91	kW	$T_j = +12 \text{ °C}$	COP _d		7.10	%
$T_j = bivalent$	Pdh	24.34	kW	$T_j = bivalent$	COP _d		2.73	<u>%</u>
temperature	Ddh	1(0(kW	temperature	COD		1 05	%
T_j = operation limit For air-to-water heat	Pdh	10.85	K W	T_j = operation limit For water-to-air heat	COP _d		1.85	~0
	Ddh		kW		COD			0/
pumps: T _j = - 15 °C (if T _{OL} < - 20 °C)	Pull	-	K VV	pumps: $T_j = -15 \ ^{\circ}C$ (if $T_{OL} < -20 \ ^{\circ}C$)	COPd		-	%
10L < -20 C)			-	For water-to-air heat				-
Bivalent temperature	T_{biv}	-6.6	°C	pumps: Operation limit	т,		_	°C
Divalent temperature	I biv	-0.0	C	temperature	I ol		-	C
			_	temperature				-
Degradation co-			_					_
efficient heat pumps**	C_{dh}	0.25	-					
Power consumption in	modes	other th	an 'active					
mode'	1110000		un uouro	Supplementary heater				
0.000	D	0.000	1.337	Electric back-up	- 11		0.000	1.337
Off mode	POFF	0.000	kW	heating capacity *	elbu		0.000) kW
Thermostat-off mode	P _{TO}	0.076	6 kW	Type of energy input				
Crankcase heater	P _{CK}	0.032	kW	Standby mode	P _{SB}		0.07(kW
mode	I CK	0.032	ζ Κ VV	Standby mode	I SB		0.070	у к үү
Other items	r							
				For air-to-air heat				
Capacity control	variab	le		pumps: Nominal air	-	10500	r	n³∕h
- · · · · · · · · · · · · · · · · · · ·				flow rate, outdoor			_	. ,
				measured				
Sound power level,	т	70.0	σι					
indoor / outdoor measured	L_{WA}	78.0	dB	For water-/brine-to-air				
				heat pumps: Rated				
Emissions of nitrogen oxides (if applicable)	NO _x	-	mg/kWh	brine or water flow	-	-	n	n³/h
oxides (il applicable)			kg CO _{2 eq}	rate, outdoor heat				
GWP of the refrigerant		2088	(100	exchanger				
			years)					
				C CONSUMER PRODUC				
Contact details				700/406 Moo 7, Tambor	n Don Hua Ro	h, Amp	hur N	Auang,
)0, Thailan					
				ne default degradation coef				
				ps, the test result and perfe				
		the out	door unit,	with a combination of i	ndoor unit(s) re	ecomme	nded	by the
manufacturer or import	er.							

Model(s): Information t Outdoor : PUHY				which the information relates : Indoor : PEFY-P50VMHS2-E×6 units	
Outdoor heat exchanger					
Indoor heat exchanger of					
Type: compressor drive					
if applicable: driver of o	compres	sor: ele	ctric motor		
Item	Symbo	l Value	e Unit	Item Symbol Value	Unit
				Seasonal space	
Rated cooling capacity	P _{rated,c}	33.50	kW	cooling energy efficiency s,c 266.2	%
Declared cooling capac outdoor temperatures (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency auxiliary energy factor for part load at given ou temperatures T _i	
$T_j = +35 \ ^\circ C$	Pdc	33.50	kW		<u>%</u>
$T_i = +30 ^{\circ}C$	Pdc		kW		%
$T_{j} = +25 \ ^{\circ}C$	Pdc		kW		<u> 0/</u>
$T_j = + 20 \ ^{\circ}C$	Pdc	8.67	kW		%
Degradation co-			-		
efficient air	C_d	0.25	-		
conditioners**					
Power consumption in mode'	modes	other th	an 'active		
Off mode Thermostat-off mode	P _{OFF} P _{TO}	0.000	kW kW		kW kW
Other items					
Capacity control	variabl	e		For air-to-air air conditioner: Nominal air flow rate, outdoor - 11100 m ³ / measured	h
Sound power level, outdoor	L _{WA}	82.0	dB		
if engine driven: Emissions of nitrogen oxides	NO _x	-	mg/kWh fuel input GCV		
GWP of the refrigerant		2088	kg CO _{2 eq} (100 years)		
Contact details	Amata	City (ELECTRI	C CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 Moo 7, Tambon Don Hua Roh, Amphur M d	luang
Where information rela	ed by m tes to m mance	easuren ulti-spl	nent then the t air condi	he default degradation coefficient air conditioners shall be (tioners, the test result and performance data may be obtain it, with a combination of indoor unit(s) recommended b	ed on

Information to identify						
Outdoor : PUHY				Indoor : PEFY-P50VMHS2-E×6 units		
Outdoor heat exchanger						
Indoor heat exchanger of				•		
Indication if the heater					11 1	
	eclared	for the a	verage h	eating season, parameters for the warmer and c	older l	neating
seasons are optional.	Sympho	l Value	I Init	Itam Symbol	Volu	e Unit
Item	Symbo	i value	Unit	Item Symbol Seasonal space heating Image: Space heating	valu	e Om
Rated heating capacity	P _{rated,h}	33.50	kW	energy efficiency ^{s,h}	153.8	
Declared heating capac	ity for n	art load	at indoor	Declared coefficient of performance or ga		
temperature 20 °C and				enciency / auxiliary energy factor for part l	load at	given
-			-	outdoor temperatures T_j		_
$T_j = -7 \ ^{\circ}C$	Pdh	29.50	kW	$T_j = -7 °C$ COP_d	2.80	%
$T_j = +2 °C$	Pdh	18.10	kW	$T_j = +2 °C COP_d$	3.51	%
$T_j = +7 \ ^{\circ}C$	Pdh	11.60	kW	$T_j = +7 ^{\circ}C$ COP_d	5.73	%
$T_j = + 12 \ ^{\circ}C$	Pdh	8.51	kW	$T_j = + 12 °C$ COP_d	5.96	%
$T_j = bivalent$ temperature	Pdh	31.70	kW	$\begin{bmatrix} T_j = bivalent \\ temperature \end{bmatrix} COP_d$	2.64	%
$T_i = operation limit$	Pdh	26.85	kW	$T_i = operation limit COP_d$	2.14	%
For air-to-water heat		20100		For water-to-air heat		
pumps: $T_j = -15$ °C (if	Pdh	_	kW	pumps: $T_j = -15 \text{ °C}$ (if COP_d	-	%
$T_{OL} < -20 \text{ °C}$				$T_{OL} < -20 $ °C		/ 0
				For water-to-air heat		
Bivalent temperature	T_{biv}	-8.6	°C	pumps: Operation limit T _{ol}	_	°C
F	011		_	temperature		_
			-			_
Degradation co-	~		-			_
efficient heat pumps**	C_{dh}	0.25	-			
Power consumption in		other that	n 'active			
mode'				Supplementary heater		
	D	0.000	1 117	Electric back-up	0.00	0 1 337
Off mode	P _{OFF}	0.000	kW	heating capacity *	0.000	0 kW
Thermostat-off mode	P _{TO}	0.076	kW	Type of energy input		
Crankcase heater	р	0.036	1-337	Stor day made	0.07	0 1-337
mode	Рск	0.030	kW	Standby mode P _{SB}	0.070	0 kW
Other items						
				For air-to-air heat		
Capacity control	variabl	0		pumps: Nominal air 11100		n³∕h
Capacity control	variaui	e		flow rate, outdoor	1	11-/11
				measured		
Sound power level,						
indoor / outdoor	L _{WA}	82.0	dB	For water-/brine-to-air		
measured				heat pumps: Rated		
Emissions of nitrogen	NO _x		mg/kWh	brine or water flow -	r	n³∕h
oxides (if applicable)	NOx		•	rate, outdoor heat	-	
GWP of the refrigerant			kg CO _{2 eq} (100	exchanger		
G WI Of the ferrigerant			years)			
	MITSI			IL I	. LTD	
Contact details				700/406 Moo 7, Tambon Don Hua Roh, Am		
), Thailan		r 1	
** If C _d is not determin				he default degradation coefficient of heat pumps sl	all be	0,25.
				nps, the test result and performance data may be ob		
				with a combination of indoor unit(s) recomme		
manufacturer or import			.,			-
4						

				which the information relates :	
Outdoor : PUHY					
				FY-P50VMHS2-E×2 units	
Outdoor heat exchanger					
Indoor heat exchanger of					
Type: compressor drive					
if applicable: driver of o				It is Court all Wales	T T., 14
Item	Symbol	Value	Unit	Item Symbol Value	Unit
Rated cooling capacity	P _{rated,c}	40.00	kW	Seasonal space cooling energy efficiency s,c 272.2	%
Declared cooling capac	city for r	oart load	at given	Declared energy efficiency ratio or gas utilization efficiency	encv /
outdoor temperatures				auxiliary energy factor for part load at given ou	
(dry/wet bulb)	J		_	temperatures T _i	
$T_i = +35 ^{\circ}C$	Pdc	40.00	kW		<u>⁰⁄₀</u>
$T_{i} = +30 ^{\circ}C$	Pdc	29.49			<u>0/</u>
$T_{i} = +25 ^{\circ}C$	Pdc	18.97			%
$T_{i} = +20 ^{\circ}C$	Pdc	12.44		$T_i = +20 ^{\circ}\text{C}$ EER _d 11.68	
5				J	
Degradation co-					
-	C_d	0.25	-		
conditioners**	-				
Power consumption in	modes	other that	an 'active		
mode'					
Off mode	POFF	0.000	kW	Crankcase heater mode P_{CK} 0.036	kW
Thermostat-off mode	P _{TO}	0.076		Standby mode P_{SB} 0.070	
Other items		•	•		
				For air-to-air air	
Capacity control	variable	e		conditioner: Nominal air flow rate, outdoor - 12600 m ³ / measured	ĥ
Sound power level, outdoor	L _{WA}	82.0	dB		
	F		mg/kWh		
if engine driven:	NO		fuel		
Emissions of nitrogen	NO _x	-	input		
oxides			GCV		
	F		kg CO _{2 eq}		
GWP of the refrigerant		2088	(100		
) (ITEGE	DIGIN	years)		
0				C CONSUMER PRODUCTS (THAILAND) CO., LTD.	
Contact details				700/406 Moo 7, Tambon Don Hua Roh, Amphur M	uang,
), Thailand		25
				e default degradation coefficient air conditioners shall be 0	
				tioners, the test result and performance data may be obtained as with a combination of indeer with (a) accomposed at h	
		or the ou	utdoor un	it, with a combination of indoor unit(s) recommended b	y the
manufacturer or import	er.				

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Information to identify t				information relates :		
Outdoor : PUHY			. ,	EV DEOVAILIES Exclumite		
				FY-P50VMHS2-E×2 units		
Outdoor heat exchanger Indoor heat exchanger of						
				conterry heaters no		
Indication if the heater i					oting	anconc
are optional.	lared to	r the ave	rage nean	ing season, parameters for the warmer and colder he	anng s	seasons
Item	Sumbo	l Value	Unit	Item Symbol	Value	Unit
_				Seasonal space heating		1
Rated heating capacity	P _{rated,h}	40.00	kW	energy efficiency s,h	139.4	
Declared heating capaci	ity for p	art load	at indoor	Declared coefficient of performance or ga		
temperature 20 °C and c				efficiency / auxiliary energy factor for part l outdoor temperatures T _i	oad at	given
$T_i = -7 ^{\circ}C$	Pdh	33.52	kW	$T_i = -7 \ ^{\circ}C \ COP_d$	2.35	<u>%</u>
$T_i = +2 \ ^{\circ}C$	Pdh	21.61		$T_i = +2 °C$ COP_d	3.29	%
$T_i = +7 °C$	Pdh	13.85		$T_i = +7 ^{\circ}C$ COP _d	4.97	%
$T_{i} = +12 ^{\circ}C$	Pdh	10.09		$T_i = +12 \text{ °C}$ COP_d	6.51	%
$T_i = bivalent$				$T_{i} = hivelent$		
temperature	Pdh	34.46	kW	temperature COP_d	2.46	<u>%</u>
$T_i = operation limit$	Pdh	27.55	kW	$T_i = operation limit COP_d$	1.92	<u>%</u>
For air-to-water heat	1 011			For water-to-air heat		, °
pumps: $T_j = -15$ °C (if	Pdh	_	kW	pumps: $T_j = -15 \text{ °C}$ (if COP_d	-	<u>%</u>
$T_{OL} < -20 \ ^{\circ}C)$	1 011			$T_{OL} < -20 \text{ °C}$		/0
- OL · _ · _ · /			-	For water-to-air heat		-
Bivalent temperature	T_{biv}	-6.4	°C	pumps: Operation limit T_{ol}	-	°C
Di talent temperatur	- 010	••••	C	temperature		C
			_			
Degradation co-						
efficient heat pumps**	C_{dh}	0.25	-			
Power consumption in	modes	other th	an 'active			
mode'	moues	ounor un	un uctive	Supplementary heater		
	-			Electric back-up]
Off mode	POFF	0.000	kW	heating capacity * elbu	0.000	kW
Thermostat-off mode	P _{TO}	0.076	kW	Type of energy input		
Crankcase heater mode		0.036		Standby mode P _{SB}	0.070	kW
Other items						
				For air-to-air heat		
Constitution 1				numpe: Nominal air		2 /1.
Capacity control	variabl	e		flow rate, outdoor 12600	m	3/h
				measured		
Sound power level,						
indoor / outdoor	L _{WA}	82.0	dB			
measured				For water-/brine-to-air		
Emissions of nitrogen	NO		ma/1-1171-	heat pumps: Rated	m	³/h
oxides (if applicable)	NO _x	-	mg/kWh	brine or water flow rate,	111	/11
	ſ		$kg \ CO_{2 \ eq}$	outdoor heat exchanger		
GWP of the refrigerant		2088	(100			
	MITCH	IDICITY	years)			
0				C CONSUMER PRODUCTS (THAILAND) CO., L		
Contact details				00/406 Moo 7, Tambon Don Hua Roh, Amphur Mua	ang, Ch	nonburi
** 16 0 1		Thailan			11.01	15
				e default degradation coefficient of heat pumps shal		
				nps, the test result and performance data may be ob with a combination of indeer unit(a) recommended		
		me out	uoor unit,	with a combination of indoor unit(s) recomme	maea	by the
manufacturer or importe	л.					

				which the information relates :		
Outdoor : PUHY						
Indoor : PEFY-l	P71VME	IS2-E $\times 5$	units, PE	FY-P50VMHS2-E×1 unit		
Outdoor heat exchanger	r of air co	ondition	er: air			
Indoor heat exchanger of	of air con	ditioner	: air			
Type: compressor drive	n vapour	compre	ssion			
if applicable: driver of o	compress	or: elect	ric motor			
Item	Symbol	Value	Unit	Item Symbol	Value	Unit
				Seasonal space		
Rated cooling capacity	P _{rated,c}	45.00	kW	cooling	253.4	%
Declared cooling capac	tty for n	art load	at given	Declared energy efficiency ratio or gas utilizatio	n effic	iencv /
outdoor temperatures				auxiliary energy factor for part load at gi		
(dry/wet bulb) $T_{1} = +35 \ ^{\circ}C$	Pdc	45.00	1-W	temperatures T_j T _i = ± 35 °C EEP.	3 51	<u>%</u>
$T_j = +35 \text{ °C}$				5	3.54	
$T_j = +30 ^{\circ}C$	Pdc	33.18		$T_j = +30 ^{\circ}\text{C}$ EER _d	4.57	%
$T_j = +25 \ ^{\circ}C$	Pdc	21.34		$T_j = +25 ^{\circ}C$ EER _d	7.69	%
$T_j = + 20 \ ^{\circ}C$	Pdc	9.55	kW	$T_j = + 20 \ ^{\circ}C \qquad EER_d$	11.80	%
Degradation co-	G	0.05				
	C_d	0.25	-			
conditioners**		<u> </u>				
Power consumption in	modes of	other that	in 'active			
mode'						
Off mode	POFF	0.000		Crankcase heater mode P _{CK}	0.036	kW
Thermostat-off mode	P _{TO}	0.076	kW	Standby mode P _{SB}	0.070	kW
Other items						
				For air-to-air air		
Canagity control	variable			conditioner: Nominal air - 12600	m	³/h
Capacity control	variable	,		flow rate, outdoor 12000	III	9/II
				measured		
Sound power level, outdoor	L _{WA}	83.0	dB			
if engine driven:			mg/kWh			
	NO		fuel			
Emissions of nitrogen	NO_x ·	-	input			
oxides			GCV			
GWP of the refrigerant			kg CO _{2 eq}			
GWI of the refingerant		2088	(100			
	MITCH	рісти г	years)	CONSUMED DRODUCTS (THAILAND) CO. 1		
Contact data:12				C CONSUMER PRODUCTS (THAILAND) CO., 1		I
Contact details				700/406 Moo 7, Tambon Don Hua Roh, Amj	phur N	viuang,
), Thailanc			o o -
				e default degradation coefficient air conditioners sl		
				ioners, the test result and performance data may be		
		of the ou	itdoor uni	it, with a combination of indoor unit(s) recomme	ended	by the
manufacturer or import	er.					

Information to identify t	hamod	$\mathbf{n}(\mathbf{c})$ to \mathbf{r}	which the i	nformation relates :				
Outdoor : PUHY				mormation relates :				
				FY-P50VMHS2-E×1 unit				
Outdoor heat exchanger								
Indoor heat exchanger o								
Indication if the heater i				entary heater: no				
				ng season, parameters for the	he warmer and co	older he	ating	seasons
are optional.			0				U	
Item	Symbo	Value	Unit	Item	Symbol		Valu	e Unit
Rated heating capacity	P _{rated,h}	45.00	kW	Seasonal space heating energy efficiency	s,h		137.	0 %
Declared heating capacite temperature 20 °C and c				Declared coefficient of efficiency / auxiliary e outdoor temperatures T _i	of performance nergy factor for	or gas part lo	s util bad at	lization given
$T_i = -7 \ ^{\circ}C$	Pdh	39.31	ĿW	$T_i = -7 \ ^{\circ}C$	COP _d		2.54	%
$T_j = +2 °C$	Pdh	24.31		$T_j = +2 °C$	COP _d		3.14	
$T_{j} = +2 \text{ C}$ $T_{j} = +7 \text{ °C}$	Pdh	15.58		$T_{j} = +2 \text{ °C}$ $T_{i} = +7 \text{ °C}$	COP _d		4.81	~0 %
$T_{j} = +7 \text{ °C}$ $T_{j} = +12 \text{ °C}$	Pdh	7.22	kW	$T_{j} = +7 \text{ °C}$ $T_{j} = +12 \text{ °C}$	COP _d		7.46	
$T_j = + T_2 C$ $T_i = bivalent$	1 uli			$T_j = + T_2 C$ $T_i = bivalent$			7.40	70
temperature	Pdh	37.56	kW	temperature	COP _d		2.45	<u>⁰⁄₀</u>
$T_i = operation limit$	Pdh	32.89	ĿW	$T_i = operation limit$	COP _d		2.02	<u>%</u>
For air-to-water heat	i un	52.07	K VV	For water-to-air heat			2.02	70
pumps: $T_j = -15$ °C (if $T_{OL} < -20$ °C)	Pdh	-	kW	pumps: $T_j = -15$ °C (if $T_{OL} < -20$ °C)	COP _d		-	<u>%</u>
Bivalent temperature	T_{biv}	-5.7	°C	For water-to-air heat pumps: Operation limit temperature	T _{ol}		-	°C
Degradation co- efficient heat pumps**	C _{dh}	0.25	-					
Power consumption in mode'	modes	other the	an 'active	Supplementary heater				_
Off mode	POFF	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	P _{CK}	0.036	kW	Standby mode	P _{SB}		0.07	0 kW
Other items								
Capacity control	variable	e		For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	12600	r	m³/h
Sound power level, indoor / outdoor measured		83.0	dB	For water-/brine-to-air				
Emissions of nitrogen oxides (if applicable)	NO _x	-	mg/kWh	heat pumps: Rated brine or water flow rate,	-	-	r	m³/h
GWP of the refrigerant		2088	kg CO _{2 eq} (100 years)	outdoor heat exchanger				
Contact details	Amata		onburi, 70	C CONSUMER PRODUCT 0/406 Moo 7, Tambon Don	•	· · ·		nonburi
Where information relat	ed by me tes to m nce of	easurem ulti-split	ent then th heat pum	e default degradation coeffi ps, the test result and perfo with a combination of i	ormance data ma	y be obt	tained	on the

				which the information relates :	
Outdoor : PUHY			· /	FY-P71VMHS2-E×2 units	
Outdoor heat exchanger				F1-F71VMHS2-E×2 units	
Indoor heat exchanger of					
Type: compressor drive					
if applicable: driver of c				It is Constant Value	TT. 14
Item	Symbol	Value	Unit	Item Symbol Value	Unit
Rated cooling capacity	P _{rated,c}	48.00	kW	Seasonal space cooling energy efficiency s,c 245.4	%
Declared cooling capac	ty for p	art load	at given	Declared energy efficiency ratio or gas utilization efficiency	ency /
outdoor temperatures				auxiliary energy factor for part load at given ou	
(dry/wet bulb)	J			temperatures T _i	
$T_j = +35 \ ^\circ C$	Pdc	48.00	kW		<u>%</u>
$T_{i} = +30 ^{\circ}C$	Pdc	35.39			<u>%</u>
$T_{i} = +25 \text{ °C}$	Pdc	22.77		5	<u>%</u>
$T_{j} = +20 \text{ °C}$ $T_{i} = +20 \text{ °C}$	Pdc	10.18		5	<u>%</u>
1 - 120 C	1 uc	10.10	K II		/0
Degradation co- efficient air conditioners**		0.25	-		
Power consumption in	modes of	other that	an 'active		
mode'					
Off mode	POFF	0.000	kW	Crankcase heater mode P_{CK} 0.036	kW
Thermostat-off mode	P _{TO}	0.081	kW	Standby mode P_{SB} 0.070	kW
Other items					
				For air-to-air air	
Capacity control	variable	•		conditioner: Nominal air flow rate, outdoor - 12600 m ³ / measured	/h
Sound power level, outdoor	LwA	83.0	dB		
if engine driven: Emissions of nitrogen oxides	NOx	-	mg/kWh fuel input GCV		
GWP of the refrigerant		2088	kg CO _{2 eq} (100 years)		
Contact details	Amata	City C		C CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 Moo 7, Tambon Don Hua Roh, Amphur M 1	luang,
Where information rela	ed by me tes to mu mance o	asurem alti-split	ent then th air condit	e default degradation coefficient air conditioners shall be (ioners, the test result and performance data may be obtain it, with a combination of indoor unit(s) recommended b	ed on

Information to identify t	he mode	$\mathbf{n}(\mathbf{s})$ to \mathbf{x}	which the i	nformation relates :				
Outdoor : PUHY				mormation relates .				
				FY-P71VMHS2-E×2 units	5			
Outdoor heat exchanger								
Indoor heat exchanger of								
Indication if the heater i				entary heater: no				
				ng season, parameters for t	he warmer and c	older he	ating s	seasons
are optional.			•	•			•	
Item	Symbol	Value	Unit	Item	Symbol		Valu	e Unit
Rated heating capacity	P _{rated,h}	48.00	kW	Seasonal space heating energy efficiency	s,h		137.0) %
Declared heating capacities temperature 20 °C and c				Declared coefficient of efficiency / auxiliary e outdoor temperatures T _i				
$T_{i} = -7 \ ^{\circ}C$	Pdh	39.31	kW	$T_j = -7 \ ^{\circ}C$	COP _d		2.48	%
$T_i = +2 °C$	Pdh	25.94		$T_j = +2 °C$	COPd		3.12	
$T_j = +7 °C$	Pdh	16.61		$T_j = +7 °C$	COPd		4.96	
$T_{i} = +12 \text{ °C}$	Pdh	7.45	kW	$T_{i} = +12 \text{ °C}$	COPd		7.38	<u>%</u>
$T_i = bivalent$				$T_i = bivalent$				
temperature	Pdh	38.77	kW	temperature	COP _d		2.52	%
$T_i = operation limit$	Pdh	32.92	kW	$T_i = operation limit$	COP _d		2.03	<u>%</u>
For air-to-water heat				For water-to-air heat				_ ``
pumps: $T_j = -15$ °C (if $T_{OL} < -20$ °C)	Pdh	-	kW	pumps: $T_j = -15$ °C (if $T_{OL} < -20$ °C)			-	<u>%</u>
10L < -20 C)				For water-to-air heat				_
Bivalent temperature	T_{biv}	-5.0	°C	pumps: Operation limit			_	°C
Divalent temperature	1 biv	-3.0	C	temperature	LOI		-	C
				temperature				_
Degradation co- efficient heat pumps**	C_{dh}	0.25	-					
Power consumption in mode'	modes of	other that	an 'active	Supplementary heater				
Off mode	POFF	0.000	kW	Electric back-up heating capacity *	elbu		0.000) kW
Thermostat-off mode	P _{TO}	0.081	kW	Type of energy input			I	
Crankcase heater mode	Рск	0.036	kW	Standby mode	P _{SB}		0.070) kW
Other items			•		1			
Capacity control	variable	9		For air-to-air heat pumps: Nominal air flow rate, outdoor measured		12600	r	n³⁄h
Sound power level, indoor / outdoor measured	L _{WA}	83.0	dB	For water-/brine-to-air				
Emissions of nitrogen	NOx	_	mg/kWh	heat pumps: Rated brine or water flow rate,		-	r	n³/h
oxides (if applicable) GWP of the refrigerant	-		kg CO _{2 eq} (100	outdoor heat exchanger				
			years)					
~ · ·				C CONSUMER PRODUC	,	· ·		-
Contact details			honburi,), Thailan	700/406 Moo 7, Tambo d	n Don Hua Ro	oh, Amp	ohur I	Muang,
Where information relat	ed by me tes to m nce of t	easurem ulti-split	ent then the heat pum	e default degradation coeff ps, the test result and perf with a combination of	formance data ma	y be ob	tained	on the

Model(s): Information t Outdoor : PUHY				which the information relates : Indoor : PEFY-P63VMHS2-E×8 units					
Outdoor heat exchanger									
Indoor heat exchanger of									
Type: compressor drive									
if applicable: driver of c	compress	or: elec	tric motor						
Item	Symbol	Value	Unit	Item Symbol Value Un					
				Seasonal space					
Rated cooling capacity	P _{rated,c}	55.00	kW	cooling energy efficiency s,c 257.4 %					
Declared cooling capac outdoor temperatures (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency auxiliary energy factor for part load at given outdoor temperatures T_i					
$T_j = +35 $ °C	Pdc	55.00	kW	$T_{j} = +35 \text{ °C} \qquad \text{EER}_{d} \qquad \qquad \textbf{3.39} \textbf{\%}$					
$T_{j} = +30 ^{\circ}\text{C}$	Pdc		kW	$T_{i} = +30 ^{\circ}\text{C}$ EER _d $4.66 ^{\circ}\text{H}$					
$T_{i} = +25 \text{ °C}$	Pdc	26.09		$T_i = +25 ^{\circ}\text{C}$ EER _d 7.73 $\frac{96}{7}$					
$T_j = +20 \ ^{\circ}C$	Pdc		kW	$T_j = +20 ^{\circ}\text{C}$ EER _d 12.03 %					
Degradation co- efficient air	C	0.25							
efficient air conditioners**	C_d	0.25	-						
Power consumption in	modes	other th	an 'active						
mode'	modes	oulei u	all active						
Off mode	P _{OFF}	0.000	kW	Crankcase heater mode P_{CK} 0.036 kW					
Thermostat-off mode	P _{TO}	0.081		Standby mode P_{SB} 0.070 kW					
Other items									
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor - 21600 m ³ /h measured					
Sound power level, outdoor	L _{WA}	86.0	dB						
if engine driven: Emissions of nitrogen oxides	NO _x	-	mg/kWh fuel input GCV						
GWP of the refrigerant	,	2088	kg CO _{2 eq} (100 years)						
Contact details	MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. Amata City Chonburi, 700/406 Moo 7, Tambon Don Hua Roh, Amphur Muang, Chonbur 20000, Thailand								
Where information rela	ed by me tes to m mance of	easuren ulti-spli	ent then the the the the	e default degradation coefficient air conditioners shall be 0.25 tioners, the test result and performance data may be obtained it, with a combination of indoor unit(s) recommended by					

Information to identify										
Outdoor : PUHY				Indoor : PEFY-P63	VMHS2-E×8 un	its				
Outdoor heat exchange										
Indoor heat exchanger of										
Indication if the heater					for 41		1.1	antin a		
	eclared	for the	average ne	eating season, parameters	for the warmer	and co	laer n	eating		
seasons are optional. Item	Symbo	l Value	Unit	Item	Symbol		Value	Unit		
				Seasonal space heating	Symbol					
Rated heating capacity	P _{rated,h}	55.00	kW	energy efficiency	s,h		137.4			
Declared heating capac				Declared coefficient o efficiency / auxiliary en						
temperature 20 °C and	outdoor	tempera	ture T _j	outdoor temperatures T _i	25	1		0		
$T_i = -7 \ ^{\circ}C$	Pdh	42.35	kW	$T_i = -7 ^{\circ}C$	COP _d		2.52	%		
$T_i = +2 ^{\circ}C$	Pdh	29.71	kW	$T_i = +2 \ ^{\circ}C$	COP _d		3.13	%		
$T_i = +7 °C$	Pdh	19.03	kW	$T_i = +7 \ ^{\circ}C$	COP _d		5.02	%		
$T_i = +12 ^{\circ}C$	Pdh		kW	$T_{i} = +12 \ ^{\circ}C$	COP _d		7.96	%		
$T_j = bivalent$	Pdh	44.42	kW	$T_j = bivalent$	COPd		2.47	%		
temperature $T_i = operation limit$	Pdh	35.18	1-337	temperature $T_i = operation limit$	COP _d		2.01	%		
$T_j = operation mint$ For air-to-water heat	Pull	35.18	K VV	$T_j = operation mint$ For water-to-air heat	COPd		2.01	70		
	Ddh		kW		COD			0/		
pumps: $T_j = -15 \ ^\circ C$ (if $T_{OL} < -20 \ ^\circ C$)	Pull	-	K VV	pumps: $T_j = -15 \text{ °C}$ (if $T_{OL} < -20 \text{ °C}$)	COPd		-	%		
$1_{0L} < -20$ C)				For water-to-air heat				-		
Divelopt tomporature	т	-5.0	°C		т			°C		
Bivalent temperature	T_{biv}	-5.0	C	pumps: Operation limit	1 ol		-	C		
				temperature				-		
Description								-		
Degradation co-	C_{dh}	0.25	-							
efficient heat pumps**		.1 .1								
Power consumption in mode'	modes	other th	an active	Supplementary heater						
	_		1	Electric back-up				7		
Off mode	P _{OFF}	0.000	kW	heating capacity *	elbu		0.000	kW		
Thermostat-off mode	P _{TO}	0.081	kW	Type of energy input						
Crankcase heater					-		· · - ·			
mode	P_{CK}	0.036	kW	Standby mode	P _{SB}		0.070	kW		
Other items										
				For air-to-air heat						
~				pumps: Nominal air						
Capacity control	variabl	e		flow rate, outdoor	-	21600	n	n³∕h		
				measured						
Sound power level,										
indoor / outdoor	Lwa	86.0	dB							
measured				For water-/brine-to-air						
Emissions of nitrogen	-			heat pumps: Rated				2.4		
oxides (if applicable)	NO _x	-	mg/kWh	brine or water flow	-	-	n	n³∕h		
	-		kg CO _{2 eq}	rate, outdoor heat exchanger						
GWP of the refrigerant		2088	(100	exentanger						
	MITCI	IDICIT	years)	C CONSUMED PRODUC	TC /TILATE ANT					
Contract data 1		MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD.								
Contact details	Amata City Chonburi, 700/406 Moo 7, Tambon Don Hua Roh, Amphur Mu Chonburi 20000, Thailand							iuang,		
** If C '					finiant of 1 (a <u>11 1</u>) 25		
				ne default degradation coef						
				ps, the test result and perfo						
		me outo	ioor unit,	with a combination of in	ndoor unit(s) re	comme	naed t	by the		
manufacturer or import	er.									

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