PRODUCT INFORMATION PUHY-P***YKB-A1.TH (-BS) For Europe Regulation

Model(s): Information Outdoor : PUH				which the information relates : Indoor : PEFY-P50VMHS2-E×4 units	
Outdoor heat exchange					
Indoor heat exchanger					
Type: compressor drive					
if applicable: driver of					
Item		l Value		Item Symbol Valu	e Unit
	~)			Seasonal space	
Rated cooling capacity	P _{rated,c}	22.40	kW	cooling energy	4 %
Declared cooling capac outdoor temperatures				Declared energy efficiency ratio or gas utilization eff auxiliary energy factor for part load at given	
(dry/wet bulb) T = +25 °C	Pdc	22.40	1-337	temperatures T_j $T_j = +35 \text{ °C}$ EER _d 4.71	<u>%</u>
$T_j = +35 \text{ °C}$ $T_j = +30 \text{ °C}$	Pdc Pdc	22.40 16.51		$ T_{j} = +35 \text{ °C} \qquad \text{EER}_{d} \qquad \qquad$	
$T_{j} = +30$ °C $T_{i} = +25$ °C	Pdc	10.51		$T_j = +30$ C EER_d 0.30 $T_j = +25$ °C EER_d 9.32	
$T_{j} = +23 \text{ C}$ $T_{i} = +20 \text{ °C}$	Pdc	6.97	kW	$T_{j} = +20 \text{ °C}$ EER _d 9.32 $T_{j} = +20 \text{ °C}$ EER _d 11.2	
$I_{\rm J} = \pm 20$ C	ruc	0.97	K VV	$I_{\rm J} = \pm 20$ C EEKd 11.2	3 70
Degradation co- efficient air	C _d	0.25	_		
conditioners**	Ca	0.23			
Power consumption in	modes	other th	an 'active		
mode'					
Off mode	POFF	0.000	kW	Crankcase heater mode P_{CK} 0.03	2 kW
Thermostat-off mode	Рто	0.076	kW	Standby mode P_{SB} 0.07	0 kW
Other items					
Capacity control	variabl	e		For air-to-air air conditioner: Nominal air flow rate, outdoor - 10500 measured	m³/h
Sound power level, outdoor	L _{WA}	78.0	dB		
if engine driven:			mg/kWh		
Emissions of nitrogen	NO _x	-	fuel		
oxides	1.0,		input GCV		
GWP			kg CO _{2 eq}		
of the refrigerant		2088	(100		
			years)		
Contact details	Amata	Nakorn		C CONSUMER PRODUCTS (THAILAND) CO., LTD. 1 Estate, 700/406 Moo 7, Tambon Don Hua Roh, Thailand	
** If C _d is not determin				e default degradation coefficient air conditioners shall b	e 0.25.
Where information rela	tes to m	ulti-split	air condit	ioners, the test result and performance data may be obt it, with a combination of indoor unit(s) recommended	ained or
the busis of the perior		01 1110 0			

Information to identify		. ,				:4		
Outdoor : PUH Outdoor heat exchange) Indoor : PEFY-P50	VMH52-E×4 un	115		
Indoor heat exchanger								
Indication if the heater				mentary heater: no				
				eating season, parameters	for the warmer	and co	lder h	eating
seasons are optional.		101 1110	a erage n	earing season, parameters				
Item	Symbo	l Value	Unit	Item	Symbol		Value	e Unit
Deted heating annexity				Seasonal space heating			1(10	0/
Rated heating capacity	P _{rated,h}	25.00	kW	energy efficiency	$\eta_{s,h}$		161.8	%
Declared heating capac	ity for r	art load	at indoor	Declared coefficient o				
temperature 20 °C and				efficiency / auxiliary en	nergy factor for	part lo	ad at	given
•		-	-	outdoor temperatures T _j				_
$T_j = -7 \ ^{\circ}C$	Pdh	22.02		$T_j = -7 \ ^{\circ}C$	COP _d		2.76	%
$T_j = + 2 \ ^{o}C$	Pdh	13.51		$T_j = +2 \ ^{\circ}C$	COP _d		3.87	%
$T_j = +7 \ ^{o}C$	Pdh		kW	$T_j = +7 \ ^{o}C$	COP _d		5.57	<u>%</u>
$T_{j} = +12 \ ^{\circ}C$	Pdh	6.35	kW	$T_j = + 12 \ ^{\circ}C$	COP _d		7.33	<u>%</u>
$T_j = bivalent$	Pdh	22.79	kW	$T_j = bivalent$	COP _d		2.75	<u>%</u>
temperature				temperature				
$T_j = operation \ limit$	Pdh	16.71	kW	T_j = operation limit	COP _d		2.02	%
For air-to-water heat				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 °C)				$T_{OL} < -20 \text{ °C}$				_
	-			For water-to-air heat	-			
Bivalent temperature	T_{biv}	-7.7	°C	pumps: Operation limit	T _{ol}		-	°C
			_	temperature				_
			_					_
Degradation co-	C_{dh}	0.25	-					
efficient heat pumps**		- 41 41-						
Power consumption in mode'	modes	other th	an active	Supplementary heater				
			7	Electric back-up		ſ		٦
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	P_{CK}	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	-	10500	n	n³/h
				measured				
Sound power level,								
indoor / outdoor	LwA	78.0	dB	For water-/brine-to-air				
measured				heat pumps: Rated				
Emissions of nitrogen	NO _x		ma/l-W/h	brine or water flow	_	_	n	n³∕h
oxides (if applicable)	NOx	-	mg/kWh	rate, outdoor heat		_		1 / 11
GWP of the refrigerant		2088	kg CO _{2 eq} (100	exchanger				
			years)					
	MITSU	JBISHI		C CONSUMER PRODUC	TS (THAILANI	D) CO., l	LTD.	
Contact details	Amata	Nakorr	n Industria	al Estate, 700/406 Moo 7				mphur
			uri 20000					
	ed by m	neasuren	nent then t	he default degradation coef				
				nps, the test result and perfo				
		the outo	loor unit,	with a combination of in	ndoor unit(s) re	commer	nded l	by the
manufacturer or import	er.							

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 o					
Item		Value		Item Symbol Value	Unit
				Seasonal space	
Rated cooling capacity	P _{rated,c}	28.00	kW	$\begin{array}{c} \text{cooling} & \text{energy} \\ \text{efficiency} & \eta_{s,c} \end{array} \qquad $	%
Declared cooling capac	city for 1	part load	l at given	Declared energy efficiency ratio or gas utilization efficiency	encv /
outdoor temperatures (dry/wet bulb)				auxiliary energy factor for part load at given ou temperatures T_j	
$T_{j} = +35 \ ^{\circ}C$	Pdc	28.00	kW	1 0	<u>%</u>
$T_{j} = +30 \ ^{\circ}C$	Pdc	20.64	kW		<u>%</u>
$T_{j} = +25 \ ^{\circ}C$	Pdc	13.28	kW		<u>%</u>
$T_j = + \ 20 \ ^oC$	Pdc	6.82	kW	$T_j = +20 \ ^{\circ}C$ EER _d 11.18	%
Degradation co- efficient air conditioners**	C _d	0.25	-		
		- 41 1. 41.	an la atiana		
Power consumption in mode'	modes	other the	an active		
Off mode Thermostat-off mode	P _{OFF} P _{TO}	0.000 0.076		Crankcase heater modePCK0.032Standby modePSB0.070	
Other items					
Capacity control	variable	e		For air-to-air air conditioner: Nominal air flow rate, outdoor - 10500 m ³ / measured	/h
Sound power level, outdoor	L _{WA}	79.0	dB		
if engine driven:	-		mg/kWh		
Emissions of nitrogen	NO _x	_	fuel		
oxides	ΠOx	-	input GCV		
GWP			kg CO _{2 eq}		
of the refrigerant		2088	(100 years)		
Contact details	Amata	Nakorn	ELECTRIC	C CONSUMER PRODUCTS (THAILAND) CO., LTD. 1 Estate, 700/406 Moo 7, Tambon Don Hua Roh, Ar Thailand	nphur
Where information rela	ed by monthese to	easurem ulti-split	ent then th air condit	the 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	the mod	el(s) to	which the	information relates :				
Outdoor : PUHY				Indoor : PEFY-P63	VMHS2-E×4 un	its		
Outdoor heat exchanger								
Indoor heat exchanger of								
Indication if the heater i								
	clared f	for the a	average he	eating season, parameters	for the warmer	and co.	lder h	eating
seasons are optional.	G 1	1 1 7 1	TT '/	T.	0 1 1		X 7 1	TT '
Item	Symbo	l Value	Unit	Item Seasonal space heating	Symbol		Value	Unit
Rated heating capacity	P _{rated,h}	31.50	kW	energy efficiency	$\eta_{s,h}$		151.8	
Declared heating capaci	ity for n	art load	at indoor	Declared coefficient of				
temperature 20 °C and o				efficiency / auxiliary er	nergy factor for	part lo	ad at	given
-				outdoor temperatures T _j		г		٦
$T_j = -7 °C$	Pdh	23.57		$T_j = -7 \ ^{\circ}C$	COPd	-	2.70	%
$T_j = +2 \ ^{\circ}C$	Pdh	17.02		5	COP _d	H	3.51	<u>%</u>
$T_j = +7 \ ^{\circ}C$	Pdh	10.91			COP _d	H	5.51	<u>%</u>
$T_j = + 12 \ ^{o}C$	Pdh	5.90	kW	$T_{j} = + 12 \ ^{\circ}C$	COP _d	_	7.44	<u>%</u>
$T_j = bivalent$ temperature	Pdh	25.56	kW	$T_j = bivalent$ temperature	COP _d		2.92	<u>%</u>
$T_i = operation limit$	Pdh	16.76	kW	-	COP _d	ŀ	1.91	<u>%</u>
For air-to-water heat				For water-to-air heat	u			
pumps: $T_j = -15 \ ^{\circ}C$ (if	Pdh	-	kW	pumps: $T_j = -15 \text{ °C}$ (if	COP _d		-	<u>%</u>
$T_{OL} < -20 ^{\circ}C)$				$T_{OL} < -20$ °C)	-			
· /				For water-to-air heat		Ī		
Bivalent temperature	T_{biv}	-5.1	°C	pumps: Operation limit	T _{ol}		-	°C
1				temperature				
						Ī		
Degradation co-	a					Ī		
efficient heat pumps**	C_{dh}	0.25	-					
Power consumption in	modes	other that	in 'active	0 1 1 1				
mode'				Supplementary heater				
Off mode	р	0.000	1-337	Electric back-up	elbu	Γ	0.000	1-337
On mode	P _{OFF}	0.000	K VV	heating capacity *	elbu		0.000	K VV
Thermostat-off mode	P _{TO}	0.076	kW	Type of energy input				
Crankcase heater	Рск	0.032	1-337	Standby mode	P _{SB}		0.070	1-337
mode	FCK	0.032	K VV	Standby mode	rsb		0.070	K VV
Other items								
				For air-to-air heat				
Capacity control	variabl	e		pumps: Nominal air	_	10500	m	n³∕h
Cupacity control	variation	C		flow rate, outdoor		10200		.,
				measured				
Sound power level,								
indoor / outdoor	L _{WA}	79.0	dB	For water-/brine-to-air				
measured	_			heat pumps: Rated				
Emissions of nitrogen	NO _x	-	mg/kWh	brine or water flow	-	-	m	n³∕h
oxides (if applicable)	1.01		-	rate, outdoor heat				
GWP of the refrigerant		2088	kg CO _{2 eq} (100 years)	exchanger				
				C CONSUMER PRODUC				
Contact details				1 Estate, 700/406 Moo 7	, Tambon Don	Hua Ro	oh, Ai	nphur
			uri 20000,					
				ne default degradation coef				
				ps, the test result and perfo				
		the outd	oor unit,	with a combination of in	ndoor unit(s) re	commen	nded b	by the
manufacturer or imported	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					
Item		Value		Item Symbol Value	Unit
	~	1		Seasonal space	
Rated cooling capacity	P _{rated,c}	33.50	kW	$\begin{array}{c} \text{cooling} & \text{energy} \\ \text{efficiency} & \eta_{s,c} \end{array} \qquad \qquad \textbf{275.0} \end{array}$	%
Declared cooling capac	tity for 1	part load	l at given	Declared energy efficiency ratio or gas utilization efficiency	encv /
outdoor temperatures (dry/wet bulb)				auxiliary energy factor for part load at given ou temperatures T_j	
$T_{j} = +35 \ ^{\circ}C$	Pdc	33.50	kW	1	<u>%</u>
$T_{j} = +30 \ ^{\circ}C$	Pdc	24.70	kW		<u>%</u>
$T_{j} = +25 \ ^{\circ}C$	Pdc	15.89	kW	$T_j = +25 \ ^{\circ}C$ EER _d 8.88	<u>%</u>
$T_j = + \ 20 \ ^oC$	Pdc	10.42	kW	$T_j = +20 \ ^{\circ}C$ EER _d 10.54	%
Degradation co- efficient air conditioners**	C _d	0.25	-		
		- 41 41-	an la stiara		
Power consumption in mode'	modes	other th	an active		
Off mode Thermostat-off mode	P _{OFF} P _{TO}	0.000 0.076		Crankcase heater modePCK0.036Standby modePSB0.070	
Other items					
Capacity control	variable	e		For air-to-air air conditioner: Nominal air flow rate, outdoor - 12600 m ³ / measured	′h
Sound power level, outdoor	L _{WA}	83.0	dB		
if engine driven:			mg/kWh		
Emissions of nitrogen	NO _x	_	fuel		
oxides	ΠOx	-	input GCV		
GWP			kg CO _{2 eq}		
of the refrigerant		2088	(100 years)		
Contact details	Amata	Nakorn		C CONSUMER PRODUCTS (THAILAND) CO., LTD. 1 Estate, 700/406 Moo 7, Tambon Don Hua Roh, An Thailand	nphu
Where information rela	ed by monthese to	easurem ulti-split	ent then th air condit	e default degradation coefficient air conditioners shall be 0 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						
Outdoor : PUHY) Indoor : PEFY-P50VMHS2-E×6 units		
Outdoor heat exchanger Indoor heat exchanger of						
Indication if the heater				mentary heater: no		
				leating season, parameters for the warmer and co	older 1	heating
seasons are optional.			iverage n	learning season, parameters for the warmer and o		licating
Item	Symbo	l Value	Unit	Item Symbol	Valu	e Unit
				Seasonal space heating		
Rated heating capacity	P _{rated,h}	37.50	kW	energy efficiency $\eta_{s,h}$	155.0	0 %
Dealand heating areas	:			Declared coefficient of performance or ga	s util	ization
Declared heating capacities temperature 20 °C and each of the second sec				efficiency / auxiliary energy factor for part 1	oad at	given
-		-	-	outdoor temperatures T _j		_
$T_j = -7 \ ^{\circ}C$	Pdh	33.01		$T_j = -7 \ ^{\circ}C$ COP _d	2.63	%
$T_j = +2 \ ^{\circ}C$	Pdh	20.26		$T_j = +2 °C COP_d$	3.69	%
$T_j = +7 \ ^{\circ}C$	Pdh	12.99		$T_j = +7 \ ^{\circ}C \qquad COP_d$	5.52	%
$T_j = +12 \ ^{\circ}C$	Pdh	9.46	kW	$T_j = +12 \text{ °C}$ COP _d	6.58	%
$T_j = bivalent$	Pdh	33.61	kW	$T_j = bivalent$ COP_d	2.64	<u>⁰∕₀</u>
temperature	D 11			temperature		
$T_j = operation limit$	Pdh	28.32	кW	$T_j = operation limit COP_d$	1.93	%
For air-to-water heat $T = 15$ °C (if	Dah		kW	For water-to-air heat $T = -15$ °C (if COD		0/
pumps: $T_j = -15$ °C (if $T_{OL} < -20$ °C)	Pun	-	K VV	pumps: $T_j = -15 \text{ °C}$ (if COP_d $T_{OL} < -20 \text{ °C}$)	-	%
10L < -20 C)				For water-to-air heat		_
Bivalent temperature	T_{biv}	-7.3	°C	pumps: Operation limit T_{ol}	_	°C
Divulent temperature	1 DIV	7.0	C	temperature		C
						_
Degradation co-	a	0.05				
efficient heat pumps**	C_{dh}	0.25	-			
Power consumption in	modes	other that	an 'active	Supplementary heater		•
mode'			-	Supplementary heater		
Off mode	POFF	0.000	kW	Electric back-up elbu	0.00	0 kW
				heating capacity *	0.000	
Thermostat-off mode	\mathbf{P}_{TO}	0.076	кW	Type of energy input		
Crankcase heater	Рск	0.036	kW	Standby mode P _{SB}	0.070	0 kW
mode Other items						
Other items				For air-to-air heat		
				numps. Nominal air		
Capacity control	variabl	e		flow rate, outdoor - 12600	I	m³/h
				measured		
Sound power level,						
indoor / outdoor	LwA	83.0	dB	For water-/brine-to-air		
measured				heat pumps: Rated		
Emissions of nitrogen	NO _x	_	mg/kWh		I	m³∕h
oxides (if applicable)	110,		•	rate, outdoor heat		
GWP of the refrigerant		2088	kg CO _{2 eq} (100	exchanger		
G wi of the renigerant		2000	years)			
	MITSU	JBISHI		IC CONSUMER PRODUCTS (THAILAND) CO.,	LTD.	
Contact details				al Estate, 700/406 Moo 7, Tambon Don Hua F		mphur
				, Thailand		
				he default degradation coefficient of heat pumps sh		
				nps, the test result and performance data may be ob		
		the out	loor unit,	with a combination of indoor unit(s) recomme	ended	by the
manufacturer or imported	er.					

				which the information relates :	
Outdoor : PUH			· ,		
				FY-P50VMHS2-E×2 units	
Outdoor heat exchanger					
Indoor heat exchanger of					
Type: compressor drive					
if applicable: driver of c	compress	sor: elect	tric motor		
Item	Symbol	Value	Unit	Item Symbol Val	ue Unit
Rated cooling capacity	P _{rated,c}	40.00	kW	$\begin{array}{ccc} Seasonal & space \\ cooling & energy \\ efficiency & \eta_{s,c} \end{array} \end{array} \qquad $.8 %
Declared cooling capac	ity for p	oart load	at given	Declared energy efficiency ratio or gas utilization ef	ficiency /
outdoor temperatures				auxiliary energy factor for part load at given	
(dry/wet bulb)				temperatures T_j	
$T_{j} = +35 \ ^{\circ}C$	Pdc	40.00	kW	$T_{j} = +35 ^{\circ}\text{C}$ EER _d 4.18	8 %
$T_{j} = +30 \ ^{\circ}C$	Pdc	29.49		$T_i = +30 ^{\circ}\text{C}$ EER _d 5.29	
$T_i = +25 ^{\circ}C$	Pdc	18.97	kW	$T_{i} = +25 ^{\circ}\text{C}$ EER _d 7.9) %
$T_{i} = +20 \ ^{\circ}C$	Pdc	12.44			23 %
5			_		
Degradation co- efficient air conditioners**	C _d	0.25	-		
Power consumption in	modes	other the	an 'active		
mode'	moues	other th	in uctive		
Off mode	P _{OFF}	0.000	kW	Crankcase heater mode P_{CK} 0.03	36 kW
Thermostat-off mode	P _{TO}	0.076	-		70 kW
Other items					
Other items				For air-to-air air	
Capacity control	variable	2		conditioner: Nominal air	m³/h
Sound power level, outdoor	Lwa	83.0	dB		
if engine driven:	Ē		mg/kWh		
Emissions of nitrogen	NO		fuel		
oxides	NO _x	-	input		
			GCV		
GWP	F		kg CO _{2 eq}		
of the refrigerant		2088	(100		
_			years)		
	MITSU	BISHI I	ELECTRIC	C CONSUMER PRODUCTS (THAILAND) CO., LTD	
Contact details				1 Estate, 700/406 Moo 7, Tambon Don Hua Roh,	
			ıri 20000,		-
** If Cd is not determin				e default degradation coefficient air conditioners shall	be 0.25.
				ioners, the test result and performance data may be ob	
				it, with a combination of indoor unit(s) recommende	
manufacturer or import	-r				

Information to identify t	he mod	el(s) to	which the i	nformation relates ·				
Outdoor : PUHY				inormation relates .				
				FY-P50VMHS2-E×2 units				
Outdoor heat exchanger								
Indoor heat exchanger o								
Indication if the heater i				entary heater: no				
Parameters shall be decl	lared for	r the ave	rage heatir	ng season, parameters for th	ne warmer and co	older hea	ating s	seasons
are optional.								
Item	Symbo	l Value	Unit	Item	Symbol		Valu	e Unit
Rated heating capacity	$P_{\text{rated},h}$	45.00	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$		139.4	
Declared heating capacities temperature 20 °C and c				Declared coefficient of efficiency / auxiliary efforts outdoor temperatures T ₁				
$T_i = -7 ^{\circ}C$	Pdh	33.20	kW	$T_i = -7 \ ^{\circ}C$	COP _d		2.45	<u>%</u>
$T_i = +2 °C$	Pdh	24.31		$T_i = +2 °C$	COPd		3.27	<u>%</u>
$T_i = +7 \text{ °C}$	Pdh	15.58		$T_i = +7 °C$	COPd		5.05	%
$T_i = +12 ^{\circ}C$	Pdh	10.29		$T_{i} = +12 \ ^{\circ}C$	COPd		6.78	%
$T_i = bivalent$				$T_i = bivalent$				
temperature	Pdh	36.00	kW	temperature	COPd		2.64	<u>%</u>
$T_j = operation limit$	Pdh	28.02	kW	$T_j = operation limit$	COP _d		1.92	<u>%</u>
For air-to-water heat				For water-to-air heat				
pumps: T_j = - 15 $^{o}\!C$ (if	Pdh	-	kW	pumps: $T_j = -15 \text{ °C}$ (if	COP _d		-	%
$T_{OL} < -20 \ ^{\circ}C)$				$T_{OL} < -20 \ ^{\circ}C)$				_
Bivalent temperature	T_{biv}	-4.8	°C	For water-to-air heat pumps: Operation limit	T _{ol}		-	°C
			_	temperature				_
Degradation co- efficient heat pumps**	C_{dh}	0.25	-					_
Power consumption in mode'	modes	other th	an 'active	Supplementary heater			I	1
Off mode	P _{OFF}	0.000	kW	Electric back-up heating capacity *	elbu		0.00	0 kW
Thermostat-off mode	P _{TO}	0.076	kW	Type of energy input				
Crankcase heater mode	P _{CK}	0.036	kW	Standby mode	P _{SB}		0.07	0 kW
Other items								
Capacity control	variabl	e		For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	12600	1	n³/h
Sound power level, indoor / outdoor measured	Lwa	83.0	dB	For water-/brine-to-air				
Emissions of nitrogen				heat pumps: Rated				0 F
oxides (if applicable)	NO _x	-	mg/kWh	brine or water flow rate,	-	-	I	n³/h
GWP of the refrigerant		2088	kg CO _{2 eq} (100 years)	outdoor heat exchanger				
Contact details	Amata	Nakori		C CONSUMER PRODUC ⁷ 1 Estate, 700/406 Moo 7 Thailand	· ·	,		mphur
Where information relat	ed by m tes to m nce of	easurem ulti-spli	ent then th t heat pum	e default degradation coeff ps, the test result and perfe with a combination of i	ormance data ma	y be obt	tained	on the

Model(s): Information t	o identif	y the mo	odel(s) to	which the information relates :		
Outdoor : PUH						
Indoor : PEFY-I	P71VMF	IS2-E×5	units, PE	FY-P50VMHS2-E×1 unit		
Outdoor heat exchanger						
Indoor heat exchanger of						
Type: compressor drive						
if applicable: driver of o						
Item	Symbol	Value	Unit	Item Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	45.00	kW	Seasonal space cooling energy efficiency η _{s,c}	249.0	%
Declared cooling capac	tty for t	oart load	at given	Declared energy efficiency ratio or gas utilizatio	n effici	iencv /
outdoor temperatures				auxiliary energy factor for part load at gi		
(dry/wet bulb)	J			temperatures T_i		
$T_{j} = +35 \ ^{\circ}C$	Pdc	45.00	kW		3.54	<u>⁰⁄₀</u>
$T_{i} = +30 ^{\circ}C$	Pdc	33.18	_		4.44	%
$T_{i} = +25 ^{\circ}C$	Pdc	21.34	kW	5	7.61	%
$T_{i} = +20 ^{\circ}C$	Pdc	9.55	kW	5	11.46	%
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	\mathbf{P}_{TO}	0.076	kW	Standby mode P _{SB}	0.070	kW
Other items						
				For air-to-air air		
Capacity control	variable	e		conditioner: Nominal air flow rate, outdoor - 12600 measured	m	³/h
Sound power level, outdoor	Lwa	83.0	dB			
if engine driven:			mg/kWh			
Emissions of nitrogen	NO		fuel			
oxides	NO _x	-	input GCV			
GWP	F		kg CO _{2 eq}			
of the refrigerant		2088	(100			
			years)			
	MITSU	BISHI I	ELECTRIC	C CONSUMER PRODUCTS (THAILAND) CO., I	LTD.	
Contact details				1 Estate, 700/406 Moo 7, Tambon Don Hua R		mphur
			ıri 20000,			-
** If Cd is not determin				e default degradation coefficient air conditioners sh	nall be	0.25.
				tioners, the test result and performance data may be		
		of the or	utdoor uni	it, with a combination of indoor unit(s) recomme	ended	by the
manufacturer or imported	er.					

Information to identify t	he mod	el(s) to y	which the i	nformation relates :				
Outdoor : PUHY				inormation 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 th	ne warmer and co	older hea	ating s	easons
are optional.			•	-			•	
Item	Symbo	l Value	Unit	Item	Symbol		Value	e Unit
Rated heating capacity	P _{rated,h}	50.00	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$		137.0	%
Declared heating capacitemperature 20 °C and c				Declared coefficient of efficiency / auxiliary efficiency T outdoor temperatures T				
$T_i = -7 °C$	Pdh	39.31	ĿW	$T_i = -7 \ ^{\circ}C$	COP _d		2.56	<u>%</u>
$T_j = +2 °C$	Pdh	27.01		$T_j = -7 \text{ °C}$ $T_j = +2 \text{ °C}$	COP _d		3.21	70 %
$T_{j} = +7 °C$	Pdh	17.31		$T_{j} = +7 °C$	COP _d		4.85	
$T_{j} = +7 C$ $T_{j} = +12 °C$	Pdh	8.02	kW	$T_{j} = +7 C$ $T_{j} = +12 °C$	COP _d		7.04	
$T_i = bivalent$			1	$T_i = bivalent$				
temperature	Pdh	39.81	kW	temperature	COP _d		2.51	%
$T_j = operation limit$	Pdh	33.26	kW	$T_j = operation limit$ For water-to-air heat	COP _d		2.01	%
For air-to-water heat pumps: $T_j = -15$ °C (if $T_{OL} < -20$ °C)	Pdh	-	kW	For water-to-air neat pumps: $T_j = -15 \text{ °C}$ (if $T_{OL} < -20 \text{ °C}$)	COP _d		-	%
Bivalent temperature	T_{biv}	-4.7	°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 th	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	P _{CK}	0.036	kW	Standby mode	P _{SB}		0.070	kW
Other items								
Capacity control	variabl	e		For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	12600	n	n³/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,	-	-	n	n³/h
GWP of the refrigerant	_	2088	kg CO _{2 eq} (100 years)	outdoor heat exchanger				
Contact details	Amata Muang	Nakorr , Chonb	n Industria uri 20000,		, Tambon Don	Hua R	oh, A	-
Where information relat	tes to m	ulti-spli	t heat pum	e default degradation coeff ps, the test result and perfo with a combination of i	ormance data ma	y be obt	ained	on the

				which the information relates :	
Outdoor : PUH					
				EFY-P50VMHS2-E×4 unit	
Outdoor heat exchanger					
Indoor heat exchanger of					
Type: compressor drive					
if applicable: driver of o					
Item	Symbol	Value	Unit	Item Symbol Value U	Jnit
Rated cooling capacity	P _{rated,c}	50.00	kW	$ \begin{array}{c c} Seasonal & space \\ cooling & energy \\ efficiency & \eta_{s,c} \end{array} \end{array} 273.8 \% $, D
Declared cooling capac outdoor temperatures (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficien auxiliary energy factor for part load at given outd temperatures T _i	
$T_j = +35 $ °C	Pdc	50.00	kW	$T_{j} = +35 \text{ °C} \qquad \text{EER}_{d} \qquad \qquad$	4
$T_{j} = +30 \text{ °C}$	Pdc	36.85		$T_{i} = +30 ^{\circ}\text{C}$ EER _d $5.97 ^{\circ}\text{H}$	
$T_{i} = +25 \text{ °C}$	Pdc	23.70	-	$T_{i} = +25 \text{ °C}$ EER _d 3.16 %	
$T_{i} = +20 \text{ °C}$	Pdc	10.55		$T_i = +20 ^{\circ}\text{C}$ EER_d 0.10 7	
$I_{j} = +20$ C	1 uc	10.55	K VV	$I_{j} = +20$ C LLR_{d}	0
conditioners**	C_d	0.25	-		
Power consumption in	modes of	other that	an 'active		
mode'					
Off mode	POFF	0.000	kW	Crankcase heater mode P_{CK} 0.045 k	W
Thermostat-off mode	P _{TO}	0.081	kW	Standby mode P_{SB} 0.070 k	W
Other items					
				For air-to-air air	
Capacity control	variable	2		conditioner: Nominal air flow rate, outdoor - 21600 m ³ /h measured	
Sound power level, outdoor	Lwa	85.0	dB		
if engine driven:	F		mg/kWh		
Emissions of nitrogen	NO		fuel		
oxides	NO _x	-	input		
			GCV		
GWP	F		kg CO _{2 eq}		
of the refrigerant		2088	(100		
			years)		
Contact details	Amata	Nakorn		C CONSUMER PRODUCTS (THAILAND) CO., LTD. Il Estate, 700/406 Moo 7, Tambon Don Hua Roh, Amp Thailand	ohur
** If Cd is not determin				e default degradation coefficient air conditioners shall be 0.2	25.
				tioners, the test result and performance data may be obtained	
				it, with a combination of indoor unit(s) recommended by	
manufacturer or import				•	
1					

Information to identify t	he mod	el(s) to s	which the i	nformation relates ·				
Outdoor : PUHY				mormation relates .				
				FY-P50VMHS2-E×4 unit				
Outdoor heat exchanger								
Indoor heat exchanger of								
Indication if the heater i				entary heater: no				
				g season, parameters for th	ne warmer and co	older hea	ating s	easons
are optional.			U	0 1			U	
Item	Symbo	l Value	Unit	Item	Symbol		Value	e Unit
Rated heating capacity	P _{rated,h}	56.00	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$		139.0) %
	Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j				of performance nergy factor for			
$T_i = -7 °C$	Pdh	42.35	1-W	outdoor temperatures T_j $T_j = -7 \ ^{\circ}C$	COP _d		2.54	<u>%</u>
$T_j = -7 C$ $T_j = +2 °C$	Pdh	30.26		$T_j = -7 C$ $T_j = +2 °C$	COP _d		3.20	70 %
$T_{j} = +2 \text{ °C}$ $T_{j} = +7 \text{ °C}$	Pdh	19.38		$T_{j} = +2 C$ $T_{j} = +7 °C$	COPd		5.08	~0 %
$T_{j} = +7 C$ $T_{j} = +12 °C$	Pdh	8.62	kW	$T_{j} = +7 C$ $T_{j} = +12 °C$	COPd		5.08 7.99	~0 %
$T_j = + T_2 C$ $T_j = bivalent$	run			$T_i = + T_2 C$ $T_i = bivalent$				
temperature	Pdh	44.80	kW	temperature	COP _d		2.50	<u>%</u>
$T_j =$ operation limit	Pdh	35.18	kW	T_j = operation limit	COP _d		2.02	%
For air-to-water heat pumps: $T_j = -15$ °C (if $T_{OL} < -20$ °C)	Pdh	-	kW	For water-to-air heat pumps: $T_j = -15 \text{ °C}$ (if $T_{OL} < -20 \text{ °C}$)	COP_d		-	%
Bivalent temperature	T_{biv}	-4.8	°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 th	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}	0.081	kW	Type of energy input				
Crankcase heater mode	$\mathbf{P}_{\mathbf{CK}}$	0.045	kW	Standby mode	P _{SB}		0.070) kW
Other items	_							
Capacity control	variabl	e		For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	21600	n	n³/h
Sound power level, indoor / outdoor measured		85.0	dB	For water-/brine-to-air				
Emissions of nitrogen oxides (if applicable)	NO _x	-	mg/kWh	heat pumps: Rated brine or water flow rate,	-	-	n	n³/h
GWP of the refrigerant	_	2088	kg CO _{2 eq} (100 years)	outdoor heat exchanger				
Contact details	Amata Muang	Nakorr , Chonb	n Industria uri 20000,		, Tambon Don	Hua R	oh, A	-
Where information related	tes to m nce of	ulti-spli	t heat pum	e default degradation coeff ps, the test result and perfo with a combination of i	ormance data ma	y be obt	ained	on the

Model(s): Information t		•							
Outdoor : PUHY Outdoor heat exchanger				Indoor :	PEFY-P	63VMHS2-E	× 8 units		
Indoor heat exchanger									
Type: compressor drive									
if applicable: driver of o									
Item	Symbol			Item		Symbol		Value	Unit
Item	byineoi	, varae		Seasonal	space	Symeor			
Rated cooling capacity	P _{rated,c}	55.00	kW	cooling efficiency	energy	$\eta_{s,c}$		255.0	%
Declared cooling capac	city for r	part loa	d at given	Declared en	ergy effic	iency ratio or	gas utilizati	ion effic	iency /
outdoor temperatures (dry/wet bulb)					nergy fac	ctor for part			
$T_1 = +35 \ ^{\circ}C$	Pdc	55.00	kW	$T_{j} = +35 \ ^{\circ}C$				3.60	%
$T_{j} = +30 ^{\circ}C$	Pdc	40.55		$T_{j} = +30 \ ^{\circ}C$			4.55	%	
$T_{j} = +25 \ ^{\circ}C$	Pdc	26.09	kW	$T_{j} = +25 \ ^{\circ}C$	$T_i = +25 \text{ °C}$ EER _d		7.70	%	
$T_j = + \ 20 \ ^{o}C$	Pdc	11.61	kW	$T_j = + 20 \ ^{\circ}C$		EER _d		11.75	%-
Degradation co- efficient air conditioners**	C _d	0.25	-						
Power consumption in	modes	other th	an 'active						
mode'	modes	other ti	an active						
Off mode Thermostat-off mode	P _{OFF} P _{TO}	0.000 0.081		Crankcase h Standby mod		le P _{CK} P _{SB}		0.045 0.070	kW kW
Other items	-								
Capacity control	variable	2		For air- conditioner: flow rate measured		air air door	2160	0 m	3/h
Sound power level, outdoor	L _{WA}	86.0	dB						
if engine driven: Emissions of nitrogen oxides	NO _x	-	mg/kWh fuel input GCV						
GWP	-		kg CO _{2 eq}						
of the refrigerant		2088	(100 years)						
	MITSI	BISH	-	C CONSUME		UCTS (THAI	LAND) CO	LTD	
Contact details	Amata	Nakor		al Estate, 700			,		mphur
** If C _d is not determin Where information rela the basis of the perfor manufacturer or importe	ed by me ites to m mance of	easuren ulti-spli	ent then th t air condit	e default degra ioners, the test	result an	d performanc	e data may	be obtai	ned on

Information to identify	41. a	a1(a) ta		:f				
Information to identify					$\mathbf{V}\mathbf{M}\mathbf{H}\mathbf{C}2 = \mathbf{V}0$	mita		
Outdoor : PUHY				Indoor : PEFY-P63	VMHS2-E×81	inits		
Outdoor heat exchanger Indoor heat exchanger of								
Indication if the heater				nontary hostor: no				
				eating season, parameters	for the warmar	and co	ldor k	posting
seasons are optional.			average no	eating season, parameters	for the warmer	and co		leating
Item	Symbo	l Value	Unit	Item	Symbol		Value	e Unit
	Č.			Seasonal space heating				
Rated heating capacity	Prated,h	63.00	kW	energy efficiency	$\eta_{s,h}$		137.4	%
Declared heating capac temperature 20 °C and				Declared coefficient of efficiency / auxiliary efficiency / auxiliary efficiency fills				
$T_i = -7 ^{\circ}C$	Pdh	42.35	kW	$T_j = -7 ^{\circ}C$	COP _d		2.64	<u>%</u>
$T_j = +2 °C$	Pdh	34.04	kW	$T_j = +2 °C$	COP _d		3.18	<u>%</u>
$T_i = +7 °C$	Pdh	21.81	kW	$T_j = +7 °C$	COP _d		5.06	%
$T_{j} = +12 ^{\circ}C$	Pdh	9.70	kW	$T_{j} = +12 \ ^{\circ}C$	COP _d		8.14	%
$T_j = bivalent$	Pdh	47.49	1-337	$T_j = bivalent$	COP _d		2.66	%
temperature	run	47.49	K VV	temperature			2.00	-70
$T_j = operation limit$	Pdh	35.18	kW	$T_j = operation limit$	COP _d		2.11	%
For air-to-water heat pumps: $T_i = -15$ °C (if	Ddh		kW	For water-to-air heat pumps: $T_i = -15$ °C (if	COR			<u>%</u>
$T_{OL} < -20 \ ^{\circ}C$	Full	-	K VV	pumps. $T_j = -15$ C (ii $T_{OL} < -20$ °C)	COPd		-	~/0
Bivalent temperature	T_{biv}	-3.6	°C	For water-to-air heat pumps: Operation limit temperature	T _{ol}		-	°C
Degradation co- efficient heat pumps** Power consumption in	C _{dh}	0.25	- n 'active					
mode'	moues	other th	ur ucuve	Supplementary heater				
Off mode	P _{OFF}	0.000	kW	Electric back-up heating capacity *	elbu		0.000) kW
Thermostat-off mode	P_{TO}	0.081	kW	Type of energy input				
Crankcase heater	P _{CK}	0.045	ĿW	Standby mode	P _{SB}		0 070) kW
mode	ICK	0.045	K VV	Standoy mode	1 28		0.070	, KW
Other items						-		
Capacity control	variable			For air-to-air heat pumps: Nominal air flow rate, outdoor measured	21600 m³/h		n³/h	
Sound power level, indoor / outdoor measured	_	86.0	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
GWP of the refrigerant		2088	kg CO _{2 eq} (100 years)	rate, outdoor heat exchanger				
Contact details	Amata Muang	Nakorn , Chonb	ELECTRI Industria uri 20000,		, Tambon Don	Hua R	oh, A	-
Where information rela	tes to m nce of t	ulti-spli	t heat pum	the default degradation coef aps, the test result and performing with a combination of i	ormance data ma	y be ob	tained	on the

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