PRODUCT INFORMATION
PUHY-P***YNW-A.TH (-BS)
PUHY-EP***YNW-A.TH (-BS)
For Europe Regulation

3.4 J-1/-). Information t	: d-mtifr	de mode	1/ :) t= mhi ak	- 1	1 '.fti-m moletage							
Model(s): Information to identify the model(s) to which the information relates: Outdoor: PUHY-P200YNW-A.TH (-BS) Indoor: PEFY-P50VMHS2-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 Sy	ymbol		Value	Unit			
Rated cooling capacity	P _{rated,c}	22.40	kW		Seasonal space cooling η_s energy efficiency	s,c		335.0	%			
Declared cooling capa	city for	part load	d at given		Declared energy efficiency	ratio or g	as utiliz	ation ef	ficiency /			
outdoor temperatures T_j bulb)					auxiliary energy factor temperatures T_j							
$T_j = +35$ °C	Pdc	22.40	kW		$T_j = +35 ^{\circ}\text{C}$	ER_d	I	5.28	%			
$T_{i} = +30 {}^{\circ}\text{C}$	Pdc	16.51	kW		· ·	ER_d		7.15	%			
$T_i = +25 ^{\circ}\text{C}$	Pdc	10.61	kW		*	ER_d	I	11.27	%			
$T_j = +20 ^{\circ}C$	Pdc	9.39	kW		3	ER_d		16.54	%			
Degradation co- efficient air conditioners**	ficient air C _d 0.25 - onditioners**											
ower consumption in modes other than 'active mode'												
Off mode Thermostat-off mode	$\begin{array}{c} P_{OFF} \\ P_{TO} \end{array}$	0.000	kW kW			P _{CK} P _{SB}		0.044 0.063				
Other items												
Capacity control	variable				For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	10200	m ³ /	/h			
Sound power level, outdoor	L _{WA}	75.0	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	Amata Na Muang, C	akorn Ind Chonburi	lustrial Estat 20000, Thai	te,		Don Hua R	oh, Amp	phur				
** If C _d is not determine	ed by meas	surement	then the def	aı	ılt degradation coefficient a	ir conditio	ners sha	ll be 0.2	25.			
		-			the test result and performation of indoor unit(s) re		-					

⁽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-A.TH (-BS) Indoor: PEFY-P50VMHS2-E×4 units													
	Outdoor: PUHY-P200YNW-A.TH (-BS) Indoor: PEFY-P50VMHS2-E×4 units Outdoor heat exchanger of heat pump: air												
Indoor heat exchanger of													
Indication if the heater i			supplementa	irv	heater: no								
				•	son, parameters for the wa	rmer and c	older he	ating	seasons are				
optional.			<i>5 6</i>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			8					
Item	Symbol	Value	Unit	_	Item	Symbol		Valu	e Unit				
Rated heating capacity	P _{rated,h}	25.00	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$		185.					
Declared heating capa temperature 20 °C and of	-	-			Declared coefficient of efficiency / auxiliary enoutdoor temperatures T _i	-		_					
$T_i = -7 ^{\circ}C$	Pdh	22.12	kW		$T_i = -7 ^{\circ}C$	COP_d		3.03	%				
$T_j = +2 ^{\circ}C$	Pdh	13.45	kW		$T_j = +2 ^{\circ}C$	COP_d		4.07	%				
$T_j = +7$ °C	Pdh	8.65	kW		$T_j = +7 ^{\circ}C$	COP_d		7.29	9∕0				
$T_{j} = + 12 {}^{\circ}\text{C}$	Pdh	5.85	kW		$T_{j} = + 12 {}^{\circ}\text{C}$	COP_d		10.68	%				
$T_j = bivalent$	Pdh	23.46	kW		$T_j = bivalent$	COP_d		2.89	%				
temperature	run	23.40	K VV		temperature	COId		2.09	70				
T_j = operation limit	Pdh	18.50	kW		T_j = 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		-	9/0				
T_{OL} < - 20 °C)					$T_{OL} < -20 ^{\circ}C)$								
					For water-to-air heat								
Bivalent temperature	$T_{\rm biv}$	-8.4	°C		pumps: Operation limit	T_{ol}		-	°C				
					temperature								
Degradation co-	C_{dh}	0.25											
efficient heat pumps**	Cdh	0.23	_										
Power consumption in r	nodes oth	er than 'ad	ctive mode'		Supplementary heater								
			1		Electric back-up				7				
Off mode	P_{OFF}	0.000	kW		Electric back-up heating capacity *	elbu		0.000	kW				
Thermostat-off mode	P_{TO}	0.068	kW		Type of energy input				<u>.</u>				
Crankcase heater mode	P_{CK}	0.044	kW		Standby mode	P_{SB}		0.063	kW				
Other items				1									
Other rems				t	For air-to-air heat								
					pumps: Nominal air								
Capacity control	variable				flow rate, outdoor	-	10200	n	n³/h				
					measured								
Sound power level,				T	For water-/brine-to-air								
indoor / outdoor	L_{WA}	78.0	dB		heat pumps: Rated								
measured					brine or water flow	-	-	n	n³/h				
Emissions of nitrogen	NO		/1-3371-	T	rate, outdoor heat								
oxides (if applicable)	NO_x	-	mg/kWh		exchanger								
GWP of the refrigerant		2088	kg CO _{2 ep} (100 years)										
	MITSUI	BISHI EL	ECTRIC CO	ON	SUMER PRODUCTS (TI	HAILAND) CO., L'	TD.					
Contact details					, 700/406 Moo 7, Tambon								
			20000, Tha										
** If C _d is not determine					ilt degradation coefficient	of heat pun	nps shall	be 0,2	25.				
					, the test result and perfor								
					pination of indoor unit(s) re								
importer.													

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		1 10	ODCCI.	1 1	TORMATION(1)				
Model(s): Information to Outdoor: PUHY	-			n 1	the information relates: Indoor: PEFY-P63VMH	S2-E×4 uni	its		
Outdoor heat exchanger									
Indoor heat exchanger o	f air cond	litioner: a	ir						
Type: compressor driver									
if applicable: driver of c	ompresso	or: electric	motor						
Item	Symbol	Value	Unit		Item	Symbol		Value	Unit
Rated cooling capacity	$P_{\text{rated,c}}$	28.00	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$		336.0	%
Declared cooling capa outdoor temperatures T _j bulb)	and indo	oor 27°/19	°C (dry/wet		Declared energy efficient auxiliary energy factor temperatures T _j	for part		given	outdoor
$T_j = +35 ^{\circ}\text{C}$	Pdc	28.00	kW		J	EER _d		4.84	%
$T_j = +30 ^{\circ}\text{C}$	Pdc	20.63	kW		J	EER _d		6.70	%
$T_{\rm j} = +25 {}^{\circ}{\rm C}$	Pdc	13.26	kW		J	EER _d		11.59	%
$T_j = +20 ^{\circ}C$	Pdc	10.34	kW		$T_{j} = +20 ^{\circ}\text{C}$	EER_d		15.58	%
Degradation co- efficient air conditioners**	C_d	0.25	-						
Power consumption in n	nodes oth	er than 'ac	ctive mode'						
Off mode Thermostat-off mode	P_{OFF} P_{TO}	0.000	kW kW		Crankcase heater mode Standby mode	P_{CK} P_{SB}		0.044 0.063	kW kW
Other items						,			
Capacity control	variable				For air-to-air ai conditioner: Nominal ai flow rate, outdoo measured	r _	11100	m³,	/h
Sound power level, outdoor	L_{WA}	78.0	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	Amata N Muang,	Nakorn Ind Chonburi	lustrial Esta 20000, Thai	te ila		Don Hua F	Roh, Amp	phur	
** If C _d is not determine	ed by mea	asurement	then the def	aı	alt degradation coefficient	air condition	oners sha	ll be 0.2	25.
Where information relat	tes to mu	lti-split ai	r conditione	ers	s, the test result and perfo	rmance dat	a may be	e obtain	ed on the
basis of the mentamenes	of the or		t vrith a sam	_~ 1	singtion of indoor unit(a)		ad bry tha		o otronom om

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

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

Model(s): Information to identify the model(s) to which the information relates: Outdoor: PUHY-P250YNW-A.TH (-BS) Indoor: PEFY-P63VMHS2-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 31.50 174.0 % Rated heating capacity P_{rated.h} kW η_{s h} energy efficiency Declared coefficient of performance or gas utilization Declared heating capacity for part load at indoor efficiency / auxiliary energy factor for part load at given temperature 20 °C and outdoor temperature T_i outdoor temperatures T_i $T_i = -7$ °C $T_i = -7$ °C 27.20 kW Pdh COP_d 3.00 % $T_i = +2 \, ^{\circ}C$ Pdh 16.96 $T_i = +2 \, ^{\circ}C$ COP_d 3.79 kW % $T_i = +7$ °C $T_i = +7$ °C Pdh 10.90 kW COP_d 6.82 % $T_i = + 12 \,{}^{\circ}\text{C}$ Pdh kW $T_i = +12 \, ^{\circ}C$ COP_d 10.06 % $T_i = bivalent$ $T_i = bivalent$ Pdh 27.62 kW COP_d 2.96 % temperature temperature 19.10 kW COP_d 2.30 T_i = operation limit Pdh T_i = operation limit <u>%</u> For air-to-water heat For water-to-air heat pumps: $T_i = -15$ °C (if pumps: $T_i = -15$ °C (if Pdh COP_d kW **%** $T_{OL} < -20 \, {}^{\circ}\text{C}$ $T_{OL} < -20 \, {}^{\circ}\text{C})$ For water-to-air heat Bivalent temperature T_{biv} -6.8 °C pumps: Operation limit T_{ol} °C temperature co- C_{dh} Degradation 0.25 efficient heat pumps** Power consumption in modes other than 'active mode' Supplementary heater Electric back-up 0.000 Off mode Poff kW elbu 0.000 kW heating capacity * Thermostat-off mode P_{TO} 0.068 kW Type of energy input Crankcase heater mode P_{CK} 0.044 kW P_{SB} 0.063 kW Standby mode Other items For air-to-air heat pumps: Nominal air variable 11100 m³/h Capacity control flow rate, outdoor measured Sound power level For water-/brine-to-air outdoor L_{WA} 80.0 dΒ pumps: indoor heat brine or water flow m³/h measured outdoor heat Emissions of nitrogen rate. NO, mg/kWh exchanger oxides (if applicable) kg CO_{2 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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					` '							
Model(s): Information to	-											
Outdoor: PUHY-P300YNW-A.TH (-BS) Indoor: PEFY-P50VMHS2-E×6 units												
	Outdoor heat exchanger of air conditioner: air Indoor heat exchanger of air conditioner: air											
Type: compressor driver												
if applicable: driver of c					T. C	'r mala o l		Volue	TT '4			
Item	Symbol	Value	Unit	ŀ		Symbol		Value	Unit			
Rated cooling capacity	P _{rated,c}	33.50	kW		Seasonal space cooling energy efficiency	ls,c		317.0	%			
Declared cooling capa					Declared energy efficience							
outdoor temperatures T_j bulb)	and indo	or 27°/19°	°C (dry/wet		auxiliary energy factor temperatures T _i	for part	load at	given	outdoor			
$T_j = +35 ^{\circ}C$	Pdc	33.50	kW		$T_j = +35 ^{\circ}\text{C}$	EER _d		4.37	%			
$T_{j} = +30 {}^{\circ}\text{C}$	Pdc	24.68	kW			EER_d		5.95	%			
$T_j = +25 ^{\circ}\text{C}$	Pdc	15.87	kW		· ·	EER _d		10.08	9/0			
$T_i = +20 ^{\circ}C$	Pdc	10.89	kW		,	EER _d		16.72	%			
-,		2005	- "		-,	u			┪′╸			
Degradation co-												
_	C_d	0.25	_									
conditioners**	_											
Power consumption in n	nodes oth	or than 'ac	etiva moda!					<u> </u>				
rower consumption in i	loues our	ei man ac	tive mode									
Off mode	P_{OFF}	0.000	kW		Crankcase heater mode	P_{CK}		0.043	kW			
Thermostat-off mode	P_{TO}	0.069	kW		Standby mode	P_{SB}		0.063	kW			
			1									
Other items												
Capacity control	variable				For air-to-air air conditioner: Nominal air flow rate, outdoor measured		12000	m³	/h			
Sound power level, outdoor	L_{WA}	80.0	dB									
if engine driven: Emissions of nitrogen oxides		-	mg/kWh fuel input GCV									
GWP of the refrigerant		2088	kg CO _{2 ep} (100 years)									
Contact details	Amata N Muang, (Vakorn Ind Chonburi	lustrial Estat 20000, Thai	te.		Don Hua R	Roh, Amp	phur				
** If C _d is not determine	d by mea	surement	then the def	aı	ult degradation coefficient	air conditio	ners sha	ll be 0.2	25.			
Where information relat	tes to mul	lti-split ai	r conditione	ers	s, the test result and perfor	mance data	a may be	obtain	ed on the			
basis of the performance	of the or	ıtdoor uni	t, with a cor	nł	oination of indoor unit(s) r	ecommende	ed by the	manuf	acturer or			

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		PR	ODUCT	II	NFORMATION(1)				
Model(s): Information to									
Outdoor : PUH					Indoor: PEFY-P50VMHS	S2-E×6 uni	ts		
Outdoor heat exchanger									
Indoor heat exchanger o					1 .				
Indication if the heater i						1	11 1	<i>,</i> .	
optional.	lared for	ine averag	ge neating s	ea	son, parameters for the wa	rmer and c	older ne	ating se	easons are
Item	Symbol	Value	Unit		Item	Symbol		Value	Unit
Item	Symbol	value	Unit	7	Seasonal space heating	Symbol		varuc	I
Rated heating capacity	$P_{rated,h}$	37.50	kW		energy efficiency	$\eta_{s,h} \\$		167.0	%
			<u> </u>	1	Declared coefficient of	performa	nce or	gas i	ıtilizatior
Declared heating capa					efficiency / auxiliary en	•		_	
temperature 20 °C and o	outdoor te	mperature	e T _j		outdoor temperatures T _i	23	1		υ
$T_i = -7$ °C	Pdh	31.17	kW		$T_i = -7 ^{\circ}C$	COP_d		2.82	%
$T_j = +2 ^{\circ}C$	Pdh	20.19	kW		$T_i = +2 ^{\circ}C$	COP_d		3.62	9/o
$T_i = +7 ^{\circ}C$	Pdh	12.98	kW		$T_i = +7 ^{\circ}C$	COP_d		6.73	9/0
$T_{i} = + 12 {}^{\circ}\text{C}$	Pdh	8.20	kW		$T_{j}^{3} = + 12 ^{\circ}\text{C}$	COP_d		9.57	%
$T_i = bivalent$	D.II		1, ,,,		$T_i = bivalent$			2.06	1,,
temperature	Pdh	32.74	kW		temperature	COP_d		2.86	%
T_i = operation limit	Pdh	21.89	kW		T_i = operation limit	COP_d		2.08	9/o
For air-to-water heat			1		For water-to-air heat				1
pumps: $T_j = -15$ °C (if	Pdh	-	kW		pumps: $T_j = -15$ °C (if	COP_d		-	%
$T_{OL} < -20 {}^{\circ}\text{C})$					$T_{OL} < -20 ^{\circ}C)$				
					For water-to-air heat				
Bivalent temperature	$T_{\rm biv}$	-6.7	°C		pumps: Operation limit	T_{ol}		-	°C
					temperature				
Degradation co-	C_{dh}	0.25							
efficient heat pumps**	- dii	0.20							
Power consumption in n	nodes oth	er than 'ac	ctive mode'		Supplementary heater				
_			1						7
Off mode	P_{OFF}	0.000	kW		Electric back-up	elbu		0.000	kW
Thermostat-off mode	P_{TO}	0.069	kW		heating capacity * Type of energy input				1
		0.007	- K **		Type of energy input				
Crankcase heater mode	P_{CK}	0.043	kW		Standby mode	P_{SB}		0.063	kW
Other items				1		L			
				t	For air-to-air heat				
					pumps: Nominal air		1 4 400	2	л
Capacity control	variable				flow rate, outdoor	-	14400	m³.	/h
					measured				
Sound power level,					For water-/brine-to-air				
indoor / outdoor	L_{WA}	83.5	dB		heat pumps: Rated				
measured					brine or water flow]-	-	m³	/h
Emissions of nitrogen	NO_x	_	mg/kWh		rate, outdoor heat				
oxides (if applicable)	1, O _X				exchanger				
CWD -f 4l m-f-i m-r-t		2088	kg CO ₂ ep						
GWP of the refrigerant		2000	(100 years)						
	MITSUE	BISHI EL	ECTRIC CO	ON	I NSUMER PRODUCTS (TI	HAILAND) CO., L'	TD.	
Contact details					, 700/406 Moo 7, Tambon				
			20000, Tha				,1	•	
** If C _d is not determine					alt degradation coefficient	of heat pun	nps shall	be 0,25	5.
					s, the test result and perfor				
		-			pination of indoor unit(s) re		-		

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		<u> </u>	ODUCI	П	NFORMATION(1)						
Model(s): Information to						· PEEV	DCOM/M		· () : 4		
Outdoor : PUHY-P350 Outdoor heat exchanger				P.	EFY-P63VMHS2-E×4 un	its, PEFY-	P50 V M	HS2-E>	×2 units		
Indoor heat exchanger o				_							
Type: compressor driver								-			
if applicable: driver of c				_							
Item	Symbol		Unit	_	Item S	ymbol		Value	Unit		
Item	b) IIIo o I	1		l l		-					
Rated cooling capacity	$P_{\text{rated,c}}$	40.00	kW		Seasonal space cooling η energy efficiency	s,c		306.0	%		
Declared cooling capa	city for	part load	d at given		Declared energy efficiency	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	given	outdoor		
bulb)					temperatures T _j						
$T_j = +35 ^{\circ}\text{C}$	Pdc	40.00	kW		$T_i = +35 ^{\circ}\text{C}$	ER_d		4.05	%		
$T_j = +30 ^{\circ}\text{C}$	Pdc	29.47	kW		$T_i = +30 ^{\circ}\text{C}$	ER_d		5.51	%		
$T_i = +25 ^{\circ}\text{C}$	Pdc	18.95	kW		*	ER_d		10.01	%		
$T_i = +20 ^{\circ}\text{C}$	Pdc	11.52	kW		•	ER _d		14.84	%		
1, 2, -	100		┦""		1 - 1 - 2 - 2 - 2	, LJ - Lu		1	- 1		
Degradation co-			┥						†		
_	C_d	0.25									
conditioners**	~ u	"									
Power consumption in n	ower consumption in modes other than 'active mode'										
Off mode	P_{OFF}	0.000	kW		Crankcase heater mode	P_{CK}		0.051	kW		
Thermostat-off mode	P_{TO}	0.060	kW		Standby mode	P_{SB}		0.055	kW		
	10		1		,	DD		*			
Other items											
				П	For air-to-air air						
Compositry control	variable				conditioner: Nominal air		15000	m ³ /	/h		
Capacity control	variable				flow rate, outdoor	-	15000	111-7	11		
				Ш	measured						
Sound power level, outdoor	L_{WA}	80.5	dB								
if engine driven:			mg/kWh				ĺ				
Emissions of nitrogen			fuel input								
oxides	NO _x	, =	GCV				ĺ				
Oxides			GC V	Ш							
CIVID C.1 C.		2000	kg CO ₂ ep				ĺ				
GWP of the refrigerant		2088	(100 years)				ĺ				
	MITSUI	BISHLEL	ECTRIC CC)N	ISUMER PRODUCTS (TH	HAILAND	CO. L	TD.			
Contact details					, 700/406 Moo 7, Tambon						
Community details			20000, Thai			2011 1144 1	.011, 1 1111	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
** If C _d is not determine					alt degradation coefficient a	air conditio	ners sha	II be 0.2	25.		
					, the test result and perfor						
		-			pination of indoor unit(s) re		-				

importer.

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

PRODUCT INFORMATION(1) Model(s): Information to identify the model(s) to which the information relates: $Outdoor: PUHY-P350YNW-A.TH \ (-BS) \ Indoor: PEFY-P63VMHS2-E\times 4 \ units, PEFY-P50VMHS2-E\times 2 \ units \ (-BS) \ Indoor: PUHY-P350YNW-A.TH \ (-BS) \ Indoor: PEFY-P63VMHS2-E\times 4 \ units, PEFY-P50VMHS2-E\times 2 \ units \ (-BS) \ Indoor: PUHY-P350YNW-A.TH \ (-BS) \ Indoor: PEFY-P63VMHS2-E\times 4 \ units, PEFY-P50VMHS2-E\times 2 \ units \ (-BS) \ Indoor: PUHY-P350YNW-A.TH \ (-BS) \ Indoor: PEFY-P63VMHS2-E\times 4 \ units, PEFY-P50VMHS2-E\times 2 \ units \ (-BS) \ Indoor: PUHY-P350YNW-A.TH \ (-BS) \ Indoor: PEFY-P63VMHS2-E\times 4 \ units, PEFY-P50VMHS2-E\times 2 \ units \ (-BS) \ Indoor: PUHY-P350YNW-A.TH \ (-BS) \ Indoor: PEFY-P63VMHS2-E\times 4 \ units, PEFY-P50VMHS2-E\times 2 \ units \ (-BS) \ Indoor: PUHY-P350YNW-A.TH \ (-BS) \ Indoor: PUHY-P350YNW-A.TH \ (-BS) \ Indoor: PEFY-P63VMHS2-E\times 4 \ units, PEFY-P50VMHS2-E\times 2 \ units \ (-BS) \ Indoor: PUHY-P350YNW-A.TH \ (-BS) \ Indoor: PUHY-P350YNW$ 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 Symbol Value Unit Item Seasonal space heating Rated heating capacity Prated.h 45.00 kW 156.0 % $\eta_{s,h}$ 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 kW $T_i = -7$ °C 33.43 $T_i = -7 \,^{\circ}C$ Pdh COP_d 2.69 <u>%</u> $T_i = +2 \, ^{\circ}C$ Pdh 24.23 $T_i = +2 \, ^{\circ}C$ COP_d 3.35 kW % $T_i = +7$ °C Pdh 15.58 kW $T_i = +7$ °C COP_d 6.06 % $T_i = + 12 \,{}^{\circ}\text{C}$ Pdh 7.83 kW $T_i = +12 \, ^{\circ}C$ COP_d 9.21 % $T_i = bivalent$ $T_i = bivalent$ Pdh 37.90 kW COP_d 2.96 % temperature temperature 25.45 T_i = operation limit Pdh kW T_i = operation limit COP_d 2.37 % For air-to-water heat For water-to-air heat pumps: $T_j = -15$ °C (if Pdh pumps: $T_i = -15$ °C (if kW COP_d % $T_{OL} < -20 \, {}^{\circ}\text{C}$ $T_{OL} < -20 \, {}^{\circ}\text{C})$ For water-to-air heat $T_{\text{biv}} \\$ Bivalent temperature -5.9 °C pumps: Operation limit °C temperature co- C_{dh} Degradation 0.25 efficient heat pumps** Power consumption in modes other than 'active mode' Supplementary heater Electric back-up Off mode Poff 0.000 kW elbu 0.000 kW heating capacity * Thermostat-off mode P_{TO} 0.060 kW Type of energy input P_{SB} Crankcase heater mode P_{CK} 0.051 kW 0.055 kW Standby mode Other items For air-to-air heat pumps: Nominal air 16200 Capacity control variable m³/h flow rate, outdoor measured Sound level For water-/brine-to-air power 83.0 dΒ indoor outdoor L_{WA} pumps: brine or water flow m³/h measured Emissions of nitrogen outdoor 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. 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 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

					TORMATION(I)				
Model(s): Information to	-					' DEEX	DEOLUM	1100 E	
Outdoor : PUHY-P40 Outdoor heat exchanger				P	PEFY-P71VMHS2-E×5	units, PEFY	-P50VM	HS2-E	2×1 unit
Indoor heat exchanger o									
Type: compressor driver									
if applicable: driver of c									
Item	Symbol		Unit		Item	Symbol		Value	Unit
rtem	By III cor	, arac		1		-		, arae	
Rated cooling capacity	$P_{\text{rated,c}}$	45.00	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$		307.0	%
Declared cooling capa	city for	part loa	d at given		Declared energy efficien	cy ratio or	gas utiliz	ation e	fficiency /
outdoor temperatures T _j	and indo	oor 27°/19	°C (dry/wet		auxiliary energy facto	r for part	load at	give	n outdoor
bulb)					temperatures T _j				
$T_i = +35 ^{\circ}\text{C}$	Pdc	45.00	kW		$T_i = +35 ^{\circ}\text{C}$	EER_d		3.92	%
$T_i = +30 {}^{\circ}\text{C}$	Pdc	33.16	kW		*	EER_d		5.74	%
$T_i = +25 ^{\circ}\text{C}$	Pdc	21.32	kW		7	EER _d		10.06	_
$T_i = +20 ^{\circ}C$	Pdc	15.68	kW		· ·	EER _d		14.33	_
-,		10.00	1		-,, .	u		- 1100	7
Degradation co-			1						
	C_d	0.25	_						
conditioners**									
Power consumption in n	nodae otk	or than 'a	etiva moda!						
l ower consumption in i	noues on	iei uiaii a	_						
Off mode	P_{OFF}	0.000	kW		Crankcase heater mode	P_{CK}		0.054	kW
Thermostat-off mode	P_{TO}	0.057	kW		Standby mode	P_{SB}		0.052	kW
Other items									
					For air-to-air a	ir			
Capacity control	variable				conditioner: Nominal a	ir -	16200	m	3/h
Cupucity Control					flow rate, outdoo	or			
		1	ı	_	measured				
Sound power level,	L_{WA}	82.5	dB						
outdoor									
if engine driven:			mg/kWh						
Emissions of nitrogen	NO_x	-	fuel input						
oxides			GCV						
	 	 	1 CO-	H		+	1		
GWP of the refrigerant		2088	kg CO _{2 ep} (100 years)						
				Ļ			1		
G 1					ISUMER PRODUCTS (7				
Contact details	I				, 700/406 Moo 7, Tambo	n Don Hua	Kon, Am _l	phur	
** If C is not determine			20000, Tha			t oir oardit	onare ak-	11 ha 0	25
_	-				alt degradation coefficien				
where information relation		-			t, the test result and perfection of indear unit(a)	ormance dat	ta may be	obtan	nea on the

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

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

Model(s): Information to identify the model(s) to which the information relates: Outdoor: PUHY-P400YNW-A.TH (-BS) Indoor: PEFY-P71VMHS2-E×5 units, PEFY-P50VMHS2-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. Value Unit Item Symbol Value Unit Item Symbol Seasonal space heating 50.00 kW 148.0 % 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 $T_i = -7$ °C kW Pdh 35.23 $T_i = -7$ °C COP_d 2.81 % 26.92 $T_i = +2 \,^{\circ}C$ Pdh kW $T_i = +2 \, ^{\circ}C$ COP_d 3.20 <u>%</u> $T_i = +7$ °C $T_i = +7$ °C Pdh 17.31 kW COP_d 5.93 % $T_i = +12 \,{}^{\circ}\text{C}$ Pdh 9.13 kW $T_i = +12 \, {}^{\circ}C$ COP_d 8.85 % $T_i = bivalent$ $T_i = bivalent$ Pdh 38.46 kW COP_d 2.90 9/0 temperature temperature 26.59 T_i = operation limit Pdh T_i = operation limit COP_d 2.26 kW % For water-to-air heat For air-to-water heat pumps: $T_j = -15$ °C (if pumps: $T_i = -15$ °C (if Pdh COP_d kW % $T_{OL} < -20 \, {}^{\circ}\text{C}$ $T_{OL} < -20 \, ^{\circ}C)$ For water-to-air heat Bivalent temperature T_{biv} 4.0 °C pumps: Operation limit °C temperature co- C_{dh} Degradation 0.25 efficient heat pumps** Power consumption in modes other than 'active mode' Supplementary heater Electric back-up Off mode Poff 0.000 kW elbu 0.000 kW heating capacity * Thermostat-off mode P_{TO} 0.057 kW Type of energy input P_{SB} Crankcase heater mode P_{CK} 0.054 kW Standby mode 0.052 kW Other items For air-to-air heat pumps: Nominal air 18000 Capacity control variable m^3/h outdoor flow rate, measured Sound power level, For water-/brine-to-air dΒ outdoor L_{WA} 86.0 pumps: Rated indoor 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. 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 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

		PK	ODUCI.	П	NFORMATION(1)						
Model(s): Information to					the information relates: EFY-P63VMHS2-E×4 uni	to DEEV	D50V/M	псэ Ех	√ A unita		
Outdoor heat exchanger				P.	EF 1-P03 VIVID32-E ^ 4 UII	ils, PEF I -	P30 V IVI	по2-е	^4 units		
Indoor heat exchanger o				_							
Type: compressor driver				_							
if applicable: driver of c				_							
Item	Symbol	Value	Unit	_	Item Sy	ymbol		Value	Unit		
Rated cooling capacity	-	50.00	kW		Seasonal space cooling η_s energy efficiency			311.0	%		
Declared cooling capa outdoor temperatures T_j bulb) $T_j = +35 \text{ °C}$	-	-	_		Declared energy efficiency auxiliary energy factor temperatures T_j $T_j = +35$ °C						
$T_j = +30 ^{\circ}C$	Pdc	36.84	kW	ĺ	*	ER_{d}		5.96	%		
$T_i = +25 ^{\circ}\text{C}$	Pdc	23.68	kW		*	ER_d		9.72	%		
$T_j = +20 ^{\circ}C$	Pdc	16.08	kW		*	ER_{d}		14.47	9/0		
Degradation co- efficient air conditioners**	C_d	0.25	-								
Power consumption in modes other than 'active mode'											
Off mode	P_{OFF}	0.000	kW		Crankcase heater mode	P_{CK}		0.054	kW		
Thermostat-off mode	P_{TO}	0.063	kW			P_{SB}			kW		
Other items											
Capacity control	variable				For air-to-air air conditioner: Nominal air flow rate, outdoor measured	-	17100	m³,	/h		
Sound power level, outdoor	L_{WA}	83.5	dB								
if engine driven: Emissions of nitrogen oxides		-	mg/kWh fuel input GCV								
GWP of the refrigerant		2088	kg CO _{2 ep} (100 years)								
Contact details	Amata N Muang, 0	Vakorn Ind Chonburi	lustrial Esta 20000, Thai	te.		Oon Hua R	oh, Amj	ohur			
** If C _d is not determine	ed by mea	surement	then the def	aı	ılt degradation coefficient a	ir conditio	ners sha	ll be 0.2	25.		
Where information relat	tes to mul	lti-split ai	r conditione	rs	s, the test result and perform	nance data	may be	obtain	ed on the		

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

Model(s): Information to identify the model(s) to which the information relates: $Outdoor: PUHY-P450YNW-A.TH \ \ (-BS) \ \ Indoor: PEFY-P63VMHS2-E\times 4 \ units, PEFY-P50VMHS2-E\times 4 \ units, PEFY-P5$ 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 56.00 144.0 % Rated heating capacity P_{rated.h} kW $\eta_{s,h}$ energy efficiency Declared coefficient of performance or gas utilization Declared heating capacity for part load at indoor efficiency / auxiliary energy factor for part load at given temperature 20 °C and outdoor temperature T_i outdoor temperatures T_i $T_i = -7$ °C kW $T_i = -7 \, ^{\circ}C$ Pdh 41.20 COP_d 2.56 % 30.15 $T_i = +2 \,^{\circ}C$ Pdh $T_i = +2 \,^{\circ}C$ COP_d 3.01 kW <u>%</u> $T_i = +7$ °C $T_i = +7$ °C Pdh 19.38 kW COP_d 5.80 % $T_i = + 12 \,{}^{\circ}\text{C}$ Pdh 9.28 kW $T_i = +12 \, ^{\circ}C$ COP_d 8.38 <u>%</u> $T_i = bivalent$ $T_i = bivalent$ Pdh 46.74 kW COP_d 2.82 <u>%</u> temperature temperature T_i = operation limit Pdh 29.46 kW T_i = operation limit COP_d 2.18 <u>%</u> For air-to-water heat For water-to-air heat pumps: $T_i = -15$ °C (if pumps: $T_i = -15$ °C (if Pdh COP_d kW % $T_{OL} < -20 \, {}^{\circ}\text{C}$ $T_{OL} < -20 \, {}^{\circ}\text{C}$ For water-to-air heat $T_{\rm biv}\,$ Bivalent temperature -5.7 °C pumps: Operation limit T_{ol} °C temperature $^{\text{co-}}$ C_{dh} Degradation 0.25 efficient heat pumps** Power consumption in modes other than 'active mode' Supplementary heater Electric back-up 0.000 Off mode POFF kW elbu 0.000 kW heating capacity * Thermostat-off mode P_{TO} 0.063 Type of energy input kW Crankcase heater mode P_{CK} 0.054 kW Standby mode P_{SB} 0.052 kW Other items For air-to-air heat pumps: Nominal air variable 18300 m³/h Capacity control flow rate. outdoor measured Sound level For water-/brine-to-air power dΒ outdoor L_{WA} 88.5 indoor heat pumps: brine or water flow m³/h measured outdoor heat Emissions of nitrogen rate. NO, mg/kWh exchanger oxides (if applicable) kg CO_{2 ep} 2088 GWP of the refrigerant (100 years) 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 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

					12 024112222011(2)						
Model(s): Information to Outdoor: PUH	-				the information relates: Indoor: PEFY-P63VM	HS:	2-E×8 uni	ts			
Outdoor heat exchanger					110001 1 121 1 100 111		2 E TO GIII	-			
Indoor heat exchanger o											
Type: compressor driver											
if applicable: driver of c	ompresso	or: electric	motor								
Item	Symbol	Value	Unit		Item	Sy	mbol		Valu	ie	Unit
Rated cooling capacity	$P_{\text{rated,c}}$	56.00	kW		Seasonal space cooling energy efficiency	η _{s,}	с		303.	0	%
Declared cooling capa outdoor temperatures T_j bulb)	-	-	_		Declared energy efficient auxiliary energy factor temperatures T _j	-	_				-
$T_j = +35 ^{\circ}\text{C}$	Pdc	56.00	kW		$T_j = +35 ^{\circ}\text{C}$	EF	ER_d		4.47		%
$T_j = +30 ^{\circ}\text{C}$	Pdc	41.26	kW		$T_i = +30 {}^{\circ}\text{C}$	EF	ER_d		5.50		0/o
$T_i = +25 ^{\circ}\text{C}$	Pdc	26.53	kW		$T_i = +25 ^{\circ}\text{C}$	EF	ER_d		8.81		0/o
$T_j = +20 ^{\circ}C$	Pdc	15.30	kW		$T_j = +20 ^{\circ}\text{C}$		ER_d		15.3	6	9/0
Degradation co- efficient air conditioners**	C_{d}	0.25	-								
Power consumption in n	nodes oth	er than 'ac	ctive mode'								
Off mode	P_{OFF}	0.000	kW		Crankcase heater mode]	P_{CK}		0.04	7	kW
Thermostat-off mode	P_{TO}	0.070	kW		Standby mode		P_{SB}		0.05		
Other items											
Capacity control	variable				For air-to-air a conditioner: Nominal a flow rate, outdo measured	- 1-	-	18900	r	m³/ŀ	1
Sound power level, outdoor	L_{WA}	82.0	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	Amata N Muang,	Nakorn Ind Chonburi	lustrial Esta 20000, Thai	te.		n E	Oon Hua R	oh, Amp	hur		
** If C _d is not determine	ed by mea	asurement	then the def	aı	ılt degradation coefficier	ıt ai	r conditio	ners sha	ll be	0.25	5.
Where information relat	tes to mu	lti-split ai	r conditione	ers	s, the test result and perf	orn	nance data	a may be	obta	ine	d on the
hasis of the performance	e of the o	utdoor uni	t with a cor	mŀ	sination of indoor unit(s)	rec	rommende	d by the	man	nfa	cturer or

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

$\begin{array}{cccccccccccccccccccccccccccccccccccc$						FORMATION(1)				
Outdoor 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 Sy		-								
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. Rated heating capacity Pmoeth 63.00 kW Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T j T = -7 °C Pdh 33.09 kW T = -7 °C COP_d 33.10 % T = +2 °C Pdh 33.29 kW T = -7 °C COP_d 3.10 % T = +2 °C Pdh 11.20 kW T = -7 °C COP_d 3.10 % T = +1 °C Pdh 11.20 kW T = -7 °C COP_d 3.10 % T = +1 °C OP_d 11.20 kW T = -7 °C COP_d 3.10 % T = +1 °C COP_d 3.00 % T = -7 °C COP_d 3.10 % T = -7 °C					In	door: PEFY-P63VMHS	S2-E×8 uni	ts		
Indication if the heater is equipped with a supplementary heater: no Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional. Item Symbol Value Unit Rated heating capacity Prinesth 63.00 kW Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T _j T _j = -7 °C Pdh 33.92 kW T _j = +7 °C Pdh 33.92 kW T _j = +7 °C Pdh 11.20 kW T _j = +12 °C Pdh 11.20 kW T _j = +12 °C COP _d 3.10 % T _j = 1.20 °C Pdh 11.20 kW T _j = 1.20 °C COP _d 3.10 % T _j = 1.20 °C COP _d 3.10 % T _j = 1.20 °C COP _d 3.10 % T _j = 1.20 °C COP _d 3.24 % T _j = 1.20 °C CO										
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional. Item Symbol Value Unit Rated heating capacity Praeds 63.00 kW Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T T T T T T P P P H A3.09 kW T T T T P P P H B A3.09 kW T T T T P P P R T T T P P P P R T T T T P P P P R T T T T P P P P R T T T T T P P P P R T T T T T T T T T T T T					om, b	natari na				
Item Symbol Value Unit Item Passon							rmer and c	older he	ating se	acone are
Rated heating capacity Praieth 63.00 kW Declared heating capacity Franch 63.00 kW Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T _j T _j = -7 °C Pdh 33.92 kW T _j = +2 °C Pdh 33.92 kW T _j = +2 °C Pdh 33.92 kW T _j = +2 °C Pdh 11.20 kW T _j = +12 °C Pdh 11.20 kW T _j = +12 °C Pdh 11.20 kW T _j = +12 °C COP _d 5.90 % T _j = to 15 °C (if Pdh 70 kW T _j = 50 size (if Pdh 70 kW T _j = -7 °C Pdh 11.20 kW T _j = 0 size (if Pdh 70 kW T _j = 0 size (if Pdh 70 kW T _j = 0 size (if Pdh 70 kW T _j = 0 size (if Pdh 70 kW T _j = 0 size (if Pdh 70 kW T _j = 0 size (if Pdh 70 kW T _j = 0 size (if Pdh 70 kW T _j = 0 size (if Pdh 70 kW T _j = 0 size (if Pdh 70 kW T _j = 0 size (if Pdh 70 kW T _j = 0 size (if Pdh 70 kW T _j = 0 size (if Pdh 70 kW T _j = 0 size (if Pdh 70 kW T _j = 0 size (if Pdh 70 kW T _j = 0 size (if Pdh 70 kW T _j = 0 size (if Pdh 70 kW T _j = 0 size (if Pdh 70 kW Thermostat-off mode P _{OFF} 0.000 kW Thermostat-off mode P _{OFF} 0.000 kW Thermostat-off mode P _{OFF} 0.000 kW Thermostat-off mode P _{OF} 0.000 kW Thermostat-off mode P _{OF} 0.000 kW Thermostat off mode P _{OF} 0.000 kW Thermostat-off mode P _{OFF} 0.000 kW Thermostat-off mode		iaica ioi	inc averag	c neating s	scasoi	n, parameters for the wa	inici and c	older lie	ating sc	asons arc
Rated heating capacity \$P_{mesch}\$ 63.00 kW Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T _j T _j = -7 °C Pdh 43.09 kW T _j = +2 °C Pdh 33.92 kW T _j = +7 °C Pdh 11.20 kW T _j = +7 °C Pdh 11.20 kW T _j = +7 °C Pdh 11.20 kW T _j = +12 °C Pdh 11.20 kW T _j = +12 °C COP _d 3.10 % % T _j = +12 °C COP _d 3.10 %	_	Symbol	Value	Unit	Ite	em	Symbol		Value	Unit
Post Part		-					5 Jine 01			
Decrated heating capacity for part load at infoortemperature T _j T _j = -7 °C Pdh 33.92 kW T _j = +2 °C COP ₄ 3.10 % T _j = +2 °C Pdh 33.92 kW T _j = +2 °C COP ₄ 3.10 % T _j = +12 °C Pdh 11.20 kW T _j = +12 °C COP ₄ 8.79 % T _j = +12 °C COP ₄ 8.79 % T _j = +12 °C COP ₄ 8.79 % T _j = +12 °C COP ₄ 8.79 % T _j = +12 °C COP ₄ 8.79 % T _j = 15 °C if Pdh 1.20 kW T _j = 15 °C if Pdh 1.20 kW T _j = operation limit Pdh 26.50 kW T _j = operation limit Pdh 26.50 kW T _j = operation limit COP ₄ 2.97 % T _o = operation limit Pdh 26.50 kW T _j = operation limit COP ₄ 2.34 % For air-to-water heat pumps: T _j = -15 °C (if Pdh 1.2 kW T _j = operation limit Po ₄ 1.2 kW T _j = operation limit Po ₄ 1.2 kW T _j = operation limit Po ₄ 1.2 kW T _j = operation limit Po ₄ 1.2 kW T _j = operation limit Po ₄ 1.2 kW T _j = operation limit Po ₄ 1.2 kW T _j = operation limit Po ₄ 1.2 kW T _j = operation limit Po ₄ 1.2 kW T _j = operation limit Po ₄ 1.2 kW T _j = operation limit Po ₄ 1.2 kW T _j = operation limit Po ₄ 1.2 kW T _j = operation limit Po ₄ 1.2 kW T _j = operation limit Po ₄ 1.2 kW T _j = operation limit T _o 1.2 kW T _j = operation limit T _o 1.2 kW T _j = 0.00° kW	Rated heating capacity	P _{rated,h}	63.00	kW			$\eta_{s,h}$		145.0	%
temperature 20 °C and outdoor temperature T_j $T_j = -7$ °C Pdh $\frac{43.09}{33.92}$ kW $T_j = +2$ °C Pdh $\frac{33.09}{33.92}$ kW $T_j = +7$ °C Pdh $\frac{33.09}{33.92}$ kW $T_j = +7$ °C Pdh $\frac{33.92}{33.92}$ kW $T_j = +7$ °C COP _d $\frac{3.10}{3.10}$ % $T_j = +7$ °C Pdh $\frac{33.92}{3.92}$ kW $T_j = +7$ °C COP _d $\frac{3.10}{3.10}$ % $T_j = +7$ °C COP _d $\frac{3.10}$ % $T_j = +7$ °C COP _d $\frac{3.10}{3.10}$ % $T_j = +7$ °C	Dealered besting some	oity for	nort load	at indoor	D	eclared coefficient of	performa	nce or	gas ı	itilization
$ T_{j} = -7 ^{\circ}\text{C} \qquad \text{Pdh} \qquad \begin{array}{c} 43.09 \\ 33.92 \\ T_{j} = + 2 ^{\circ}\text{C} \qquad \text{Pdh} \qquad \begin{array}{c} 33.92 \\ 33.92 \\ T_{j} = + 7 ^{\circ}\text{C} \qquad \text{Pdh} \qquad \begin{array}{c} 33.92 \\ 21.81 \\ 11.20 \\ \text{kW} \end{array} \qquad \begin{array}{c} T_{j} = + 7 ^{\circ}\text{C} \qquad \text{COP}_{d} \qquad \begin{array}{c} 2.56 \\ 3.10 \\ 96 \\ \end{array} \qquad \begin{array}{c} 96 \\ \text{For air-fo-water heat} \\ \text{pumps: } T_{j} = \text{poperation limit} \qquad \text{Pdh} \\ \text{For air-fo-water heat} \\ \text{pumps: } T_{j} = \text{poperation limit} \qquad \text{Pdh} \\ \text{For water-to-air heat} \\ \text{pumps: } T_{j} = \text{poration limit} \qquad \text{Pdh} \\ \text{For water-to-air heat} \\ \text{pumps: } T_{j} = \text{poperation limit} \qquad \text{COP}_{d} \\ \text{To}_{l} < -20 ^{\circ}\text{C} \end{array} \qquad \begin{array}{c} -20 ^{\circ}\text{C} \\ \text{For water-to-air heat} \\ \text{pumps: } T_{j} = \text{poperation limit} \\ \text{For water-to-air heat} \\ \text{pumps: } Operation limit} \\ \text{To}_{l} < -20 ^{\circ}\text{C} \end{array} \qquad \begin{array}{c} -3.6 \\ ^{\circ}\text{C} \\ \text{To}_{l} < -20 ^{\circ}\text{C} \end{array} \qquad \begin{array}{c} -15 ^{\circ}\text{C} \text{(if Pdh}} \\ \text{To}_{l} < -20 ^{\circ}\text{C} \end{array} \qquad \begin{array}{c} -20 ^{\circ}\text{C} \\ \text{For water-to-air heat} \\ \text{pumps: Operation limit} \\ \text{To}_{l} < -20 ^{\circ}\text{C} \end{array} \qquad \begin{array}{c} -20 ^{\circ}\text{C} \\ \text{For water-to-air heat} \\ \text{pumps: Operation limit} \\ \text{To}_{l} < -20 ^{\circ}\text{C} \end{array} \qquad \begin{array}{c} -20 ^{\circ}\text{C} \\ \text{For water-to-air heat} \\ \text{pumps: Operation limit} \\ \text{To}_{l} < -20 ^{\circ}\text{C} \end{array} \qquad \begin{array}{c} -20 ^{\circ}\text{C} \\ \text{For water-to-air heat} \\ \text{pumps: Operation limit} \\ \text{To}_{l} < -20 ^{\circ}\text{C} \end{array} \qquad \begin{array}{c} -20 ^{\circ}\text{C} \\ \text{For water-to-air heat} \\ \text{pumps: Nominal air} \\ \text{plow of energy input} \end{array} \qquad \begin{array}{c} -20 ^{\circ}\text{C} \\ \text{Standby mode} \end{array} \qquad \begin{array}{c} -20 ^{\circ}\text{C} \\ \text{For water-brine-to-air heat} \\ \text{pumps: Nominal air} \\ \text{flow rate, outdoor} \\ \text{measured} \\ \text{Sound power level, indoor } / \text{outdoor} \\ \text{LwA} \qquad \begin{array}{c} 85.5 \\ \text{dB} \\ \text{MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD.} \\ \text{Amata Nakorn Industrial Estate, 700/406 Moo 7, Tambon Don Hua Roh, Amphur Muang, Chonburi 20000, Thailand Pass of the termoral of the promance data may be obtained on the default degradation coefficient of heat pumps shall be 0.25. \end{array} \qquad \begin{array}{c} -2.5 ^{\circ}\text{C} \\ MWHere information relates to multi-split air c$					lei	•	ergy factor	r for pa	rt load	at given
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	temperature 20°C and 6	outdoor to	mperature	, * j -	οι	utdoor temperatures T _j				_
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$T_j = -7 ^{\circ}C$	Pdh	43.09	kW			-		2.56	%
$ T_j = 12 {}^\circ \text{C} \\ T_j = \text{bivalent} \\ \text{temperature} \\ \text{temperature} \\ T_j = \text{operation limit} \\ \text{Pdh} \\ \text{Por air-to-water heat} \\ \text{pumps: } T_j = -15 {}^\circ \text{C} \text{ (if Pdh} \\ T_{OL} < -20 {}^\circ \text{C}) \\ \text{Bivalent temperature} \\ \text{Touth or air-to-water heat} \\ \text{pumps: } T_j = -15 {}^\circ \text{C} \text{ (if Pdh} \\ \text{Touth or air-to-water heat} \\ \text{pumps: } T_j = -15 {}^\circ \text{C} \text{ (if Pdh} \\ \text{Touth or air-to-water heat} \\ \text{pumps: } T_j = -15 {}^\circ \text{C} \text{ (if Pdh} \\ \text{Touth or air-to-water heat} \\ \text{pumps: } T_j = -15 {}^\circ \text{C} \text{ (if COP}_d \\ \text{Touth or air-to-water heat} \\ \text{pumps: } T_j = -15 {}^\circ \text{C} \text{ (if COP}_d \\ \text{Touth or air-to-water heat} \\ \text{pumps: } T_j = -15 {}^\circ \text{C} \text{ (if COP}_d \\ \text{Touth or air-to-water heat} \\ \text{pumps: } T_j = -15 {}^\circ \text{C} \text{ (if COP}_d \\ \text{Touth or air-to-water heat} \\ \text{pumps: } T_j = -15 {}^\circ \text{C} \text{ (if COP}_d \\ \text{Touth or air-to-water heat} \\ \text{pumps: } T_j = -15 {}^\circ \text{C} \text{ (if COP}_d \\ \text{Touth or air-to-water heat} \\ \text{pumps: } T_j = -15 {}^\circ \text{C} \text{ (if COP}_d \\ \text{Touth or air-to-water heat} \\ \text{pumps: } T_j = -15 {}^\circ \text{C} \text{ (if COP}_d \\ \text{Touth or air-to-water heat} \\ \text{pumps: } T_j = -15 {}^\circ \text{C} \text{ (if COP}_d \\ \text{Touth or air-to-water heat} \\ \text{pumps: } T_j = -15 {}^\circ \text{C} \text{ (if COP}_d \\ \text{Touth or air-to-water heat} \\ \text{pumps: } T_j = -15 {}^\circ \text{C} \text{ (if COP}_d \\ \text{Touth or air-to-water heat} \\ \text{pumps: } T_j = -15 {}^\circ \text{C} \text{ (if COP}_d \\ \text{Touth or air-to-water heat} \\ \text{pumps: } T_j = -15 {}^\circ \text{C} \text{ (if COP}_d \\ \text{Touth or air-to-water heat} \\ \text{pumps: } T_j = -15 {}^\circ \text{C} \text{ (if COP}_d \\ \text{Touth or air-to-water heat} \\ \text{Por water-to-air heat} \\ \text{pumps: } T_j = -15 {}^\circ \text{C} \text{ (if COP}_d \\ \text{Touth or air-to-water} \\$	$T_j = +2 ^{\circ}C$		33.92	kW			COP_d		3.10	%
T _j = bivalent Pdh 47.49 kW T _j = bivalent COP _d 2.97 % femperature T _j = operation limit Pdh Pdh For air-to-water heat pumps: T _j = -15 °C (if Pdh T _{OL} < -20 °C) T _{OL} < -20 °C) T _{OL} < -20 °C) Sivalent temperature T _{biv} -3.6 °C T _{OL} < -20 °C) For water-to-air heat pumps: Operation limit T _{ol} - °C °C For water-to-air heat pumps: Operation limit T _{ol} - °C °C For water-to-air heat pumps: Operation limit T _{ol} - °C °C For water-to-air heat pumps: Operation limit T _{ol} - °C °C For water-to-air heat pumps: Operation limit T _{ol} - °C °C For water-to-air heat pumps: Operation limit T _{ol} - °C °C For water-to-air heat pumps: Operation limit T _{ol} - °C °C For water-to-air heat pumps: Operation limit T _{ol} - °C °C For water-to-air heat pumps: Operation limit T _{ol} - °C °C For water-to-air heat pumps: Operation limit T _{ol} - °C °C For water-to-air heat pumps: Operation limit T _{ol} - °C °C °C For water-to-air heat pumps: Operation limit T _{ol} - °C °C °C °C °C °C °C			21.81	kW			COP_d		5.90	%
temperature T, = operation limit T, = operation limit Pdh For air-to-water heat pumps: T _j = - 15 °C (if Pdh T _{OL} < - 20 °C) Bivalent temperature T _{biv} -3.6 °C Degradation Co- efficient heat pumps** Power consumption in modes other than 'active mode' Off mode P _{OFF} Power consumption in modes other than 'active mode' Crankcase heater mode P _{CK} Older items Capacity control Sound power level, indoor / outdoor L _{WA} Besisons of nitrogen oxides (if applicable) MNO _X - mg/kWh Contact details MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 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 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		Pdh	11.20	kW			COP_d		8.79	%
temperature T _j = operation limit Pdh For air-to-water heat pumps: T _j = - 15 °C (if Pdh T _{OL} < - 20 °C) Bivalent temperature T _{biv} -3.6 °C Bivalent temperature T _{biv} -3.6 °C Degradation Co- efficient heat pumps** Power consumption in modes other than 'active mode' Crankcase heater mode P _{OFF} Thermostat-off mode P _{TO} Crankcase heater mode Other items Capacity control Capacity control Capacity control Variable Degradation Co- efficient heat pumps** Capacity control Variable MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 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 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	*	Pdh	47.49	kW	T_j	_j = bivalent	COP_d		2.97	9/0
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pumps: T _j = -15 °C (if Pdh To _L < -20 °C) Bivalent temperature To _L < -20 °C Bivalent temperature To _L < -20 °C Bivalent temperature To _L < -20 °C For water-to-air heat pumps: Operation limit To _l Power consumption in modes other than 'active mode' Off mode Poff To 0.000 RW Thermostat-off mode Pro 0.007 RW Type of energy input Standby mode Poss Capacity control Variable For air-to-air heat pumps: Nominal air flow rate, outdoor measured Emissions of nitrogen moxides (if applicable) GWP of the refrigerant MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 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 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	,		26.50	kW			COP_d		2.34	%
Tol. < -20 °C) Bivalent temperature Tbiv -3.6 °C Degradation co-efficient heat pumps** Off mode				1 337			COD			0/
Bivalent temperature Thiv -3.6 °C For water-to-air heat pumps: Operation limit Tol temperature For water-to-air heat pumps: Operation limit Tol temperature For water-to-air heat pumps: Operation limit Tol temperature Supplementary heater Electric back-up heating capacity * Type of energy input Standby mode PSB 0.059 kW Other items Capacity control Variable For air-to-air heat pumps: Nominal air flow rate, outdoor measured For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor heat exchanger MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. Amata Nakorn Industrial Estate, 700/406 Moo 7, Tambon Don Hua Roh, Amphur Muang, Chonburi 20000. Thailand ** If Cd 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	,	Pan	-	KW		•	COP_d		-	% 0
Bivalent temperature T _{biv} -3.6 °C pumps: Operation limit T _{ol} pumps: Op	1 _{OL} < - 20 °C)		-	_						1
Degradation co- efficient heat pumps*** Commode Poff	Rivolant tamparatura	т	3.6	°C			т			°C
Degradation co- efficient heat pumps*** Composer consumption in modes other than 'active mode' Off mode Poff O.000 RW Thermostat-off mode Poff O.000 Crankcase heater mode Other items Capacity control Supplementary heater Electric back-up heating capacity * Type of energy input Standby mode Poff For air-to-air heat pumps: Nominal air flow rate, outdoor measured For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor heat exchanger GWP of the refrigerant MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. Amata Nakorn Industrial Estate, 700/406 Moo 7, Tambon Don Hua Roh, Amphur Muang, Chonburi 20000, Thailand ** If Cd 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	Divalent temperature	1 biv	-3.0	C			1 ol			
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Off mode Poff Decomposition Decomp	efficient heat pumps**	C_{dh}	0.25	-						
Off mode Poff 0.000 kW heating capacity * Type of energy input Standby mode Poff 0.000 kW Crankcase heater mode Poff 0.007 kW Standby mode Poff Note	Power consumption in n	nodes oth	er than 'ac	ctive mode'	Sı	upplementary heater				
Thermostat-off mode P _{TO} 0.070 kW Type of energy input Standby mode P _{SB} 0.059 kW Other items Capacity control variable Capacity control variable Sound power level, indoor / outdoor measured Emissions of nitrogen oxides (if applicable) GWP of the refrigerant MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 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 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	Off 1-	D	0.000	1-337	E	lectric back-up	-11		0.000	1-337
Crankcase heater mode P _{CK} Other items Capacity control Variable Capacity control Variable Capacity control Sound power level, indoor / outdoor / outdoor / measured Emissions of nitrogen oxides (if applicable) GWP of the refrigerant MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) Co., LTD. 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 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	OII mode	r OFF	0.000	KW	he	eating capacity *	eibu		0.000	KW
Other items Capacity control Variable For air-to-air heat pumps: Nominal air flow rate, outdoor measured For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor heat exchanger MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 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 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	Thermostat-off mode	P_{TO}	0.070	kW	T	ype of energy input				
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Sound power level, indoor / outdoor L _{WA} 85.5 dB For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor heat exchanger MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 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 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	onputting transfer					*				
indoor / outdoor L _{WA} 85.5 dB heat pumps: Rated brine or water flow rate, outdoor heat exchanger MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 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 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	G 1 1 1								_	
brine or water flow rate, outdoor heat exchanger 2088 kg CO _{2 ep} (100 years) MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 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 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	•		0 <i>5 5</i>	ЧD						
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oxides (if applicable) NO _x - mg/kWh exchanger 2088 kg CO _{2 ep} (100 years) MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 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 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							_		111	/11
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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 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		Mireri	olelii ri			IIMED DDADIIAWA /WI	IAH AND	\ CO 1'	TD	
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	Contact details									
** 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	Contact details						Don Hua K	on, Am	hint	
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the	** If C, is not determine						of heat nun	ns shall	be 0.25	5
			-			_		-		

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

Model(s): Information to	-			ı t		HCO E4	:4-					
Outdoor: PUHY-EP200YNW-A.TH (-BS) Indoor: PEFY-P50VMHS2-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}	22.40	kW		Seasonal space cooling energy efficiency	l _{s,c}		358.0	%			
Declared cooling capa outdoor temperatures T_j bulb) $T_j = +35$ °C	and indo	or 27°/19° 22.40	°C (dry/wet		J	for part EER_d		give 5.60	n outdoor			
$T_j = +30$ °C	Pdc	16.51	kW		J	EER _d		8.21	%			
$T_{j} = +25 \text{ °C}$ $T_{j} = +20 \text{ °C}$	Pdc Pdc	8.53	kW kW		,	EER _d EER _d		12.99 14.72				
Degradation co- efficient air C _d 0.25 - conditioners**												
Power consumption in modes other than 'active mode'												
Off mode Thermostat-off mode	$\begin{array}{c} P_{OFF} \\ P_{TO} \end{array}$	0.000	kW kW		Crankcase heater mode Standby mode	P_{CK} P_{SB}			kW kW			
Other items				L								
Capacity control	variable				For air-to-air air conditioner: Nominal air flow rate, outdoor measured	r _	10200	n	n³/h			
Sound power level, outdoor	L_{WA}	75.0	dB	L								
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	Amata N Muang, 0	lakorn Inc Chonburi	lustrial Esta 20000, Thai	te.		Don Hua R	Roh, Amp	phur				
** If C _d is not determine	ed by mea	surement	then the def	aı	alt degradation coefficient	air conditio	ners sha	ll be 0	.25.			
Where information relat	tes to mul	lti-split ai	r conditione	rs	s, the test result and perfor	rmance data	a may be	e obtai	ned on the			
basis of the monforms	C 41	. 4 . 1	4:41	1	-:4: 6 :4:4(-)		1 1 41		.c4			

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

		PR	ODUCT	II	NFORMATION(1)				
Model(s): Information to	-			h t					
Outdoor: PUH					Indoor: PEFY-P50VMF	HS2-E×4 u	nits		
Outdoor heat exchanger									
Indoor heat exchanger o					hootom no				
Indication if the heater i					son, parameters for the wa	rmor and a	older he	oting s	ancone ara
optional.	iared for	me averag	ge nearing s	ea	son, parameters for the wa	illier allu c	older He	ating so	easons are
Item	Symbol	Value	Unit		Item	Symbol		Value	Unit
				1	Seasonal space heating	Бушоог			
Rated heating capacity	P _{rated,h}	25.00	kW		energy efficiency	$\eta_{s,h} \\$		190.0	%
Desland bestine some	-: £	11		1	Declared coefficient of	performa	nce or	gas	utilization
Declared heating capa temperature 20 °C and c					efficiency / auxiliary end	ergy factor	r for pa	rt load	at given
lemperature 20°C and C	utdoor te	mperature	: 1 _j		outdoor temperatures T _j				
$T_j = -7$ °C	Pdh	22.12	kW		$T_j = -7$ °C	COP_d		3.11	%
$T_j = +2 ^{\circ}C$	Pdh	13.45	kW		$T_j = +2 ^{\circ}C$	COP_d		4.13	⁰/o
$T_j = +7$ °C	Pdh	8.65	kW		$T_j = +7 ^{\circ}C$	COP_d		7.63	%
$T_j = + 12 ^{\circ}C$	Pdh	5.91	kW		$T_j = + 12 ^{\circ}\text{C}$	COP_d		11.06	%
$T_j = bivalent$	Pdh	23.56	kW		$T_j = bivalent$	COP_d		2.94	%
temperature		-			temperature				
T_j = operation limit	Pdh	18.66	kW		T_j = operation limit	COP_d		2.25	%
For air-to-water heat					For water-to-air heat	COD			0.4
pumps: $T_j = -15$ °C (if	Pan	-	kW		pumps: $T_j = -15$ °C (if	COP_d		-	%
$T_{OL} < -20 ^{\circ}\text{C}$			_		$T_{OL} < -20 ^{\circ}\text{C}$				-
Divolant tamparatura	T_{biv}	-8.5	°C		For water-to-air heat	т			°C
Bivalent temperature	1 biv	-0.5			pumps: Operation limit temperature	T_{ol}		-	
			_		temperature				-
Degradation co-	_								
efficient heat pumps**	C_{dh}	0.25	-						
Power consumption in n	nodes oth	or than 'ac	etive mode'		Supplementary heater				
l ower consumption in i	nodes our	Ci tilali ac	-		Supplementary neater				_
Off mode	P_{OFF}	0.000	kW		Electric back-up	elbu		0.000	kW
			_		heating capacity *				
Thermostat-off mode	P_{TO}	0.068	kW		Type of energy input				
Crankcase heater mode	P_{CK}	0.044	kW		Standby mode	P_{SB}		0.063	kW
Other items				1					
Other items				-	For air-to-air heat				
					pumps: Nominal air				
Capacity control	variable				flow rate, outdoor	-	10200	m ³	⁵ /h
					measured				
Sound power level,				1	For water-/brine-to-air				
indoor / outdoor	L_{WA}	78.0	dB		heat pumps: Rated				
measured				1	brine or water flow	 -	-	m ³	³/h
Emissions of nitrogen	NO_x	_	mg/kWh		rate, outdoor heat				
oxides (if applicable)	1 , O _X			Ļ	exchanger				
GWD of the refrigerent		2088	kg CO ₂ ep						
GWP of the refrigerant		2000	(100 years)						
	MITSUE	BISHI EL	ECTRIC CO	AC	SUMER PRODUCTS (TH	HAILAND) CO., L'	TD.	
Contact details					, 700/406 Moo 7, Tambon				
			20000, Tha						
** If C _d is not determine	ed by mea	surement	then the de	faı	alt degradation coefficient of	of heat pun	nps shall	be 0,2	5.
					s, the test result and perfor				
basis of the performance	of the ou	ıtdoor uni	t, with a co	mł	oination of indoor unit(s) re	ecommende	ed by the	manuf	facturer or

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

			02001		12 024111122011(2)					
Model(s): Information to	-			h t		Lumita				
Outdoor: PUH Outdoor heat exchanger					Indoor: PEFY-P63VMHS2-E×4	units				
Indoor heat exchanger o										
Type: compressor driver										
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 $\eta_{s,c}$ energy efficiency		361.0			
Declared cooling capa	city for	part loa	d at given		Declared energy efficiency ratio of	r gas utiliz	zation 6	efficiency /		
outdoor temperatures T_j bulb)	and indo	or 27°/19	°C (dry/wet		auxiliary energy factor for pa temperatures T _i	rt load a	t give	n outdoor		
$T_j = +35 ^{\circ}\text{C}$	Pdc	28.00	kW		$T_i = +35 ^{\circ}\text{C}$ EER _d		5.10	%		
$T_j = +30 ^{\circ}C$	Pdc	20.63	kW		$T_i = +30 ^{\circ}\text{C}$ EER _d		7.72	<u>%</u>		
$T_i = +25 ^{\circ}\text{C}$	Pdc	13.26	kW		$T_i = +25 ^{\circ}\text{C}$ EER _d		12.99			
$T_j = +20 ^{\circ}C$	Pdc	10.09	kW		$T_j = +20 ^{\circ}\text{C}$ EER _d		14.83			
Degradation co- efficient air conditioners**	· C _d	0.25	-							
Power consumption in modes other than 'active mode'										
Off mode Thermostat-off mode	$\begin{array}{c} P_{OFF} \\ P_{TO} \end{array}$	0.000	kW kW		Crankcase heater mode P_{CK} Standby mode P_{SB}			kW kW		
Other items		-	•							
Capacity control	variable				For air-to-air air conditioner: Nominal air flow rate, outdoor measured	11100	m	3 ³ /h		
Sound power level, outdoor	L_{WA}	78.0	dB							
if engine driven: Emissions of nitrogen oxides		-	mg/kWh fuel input GCV							
Emissions of nitrogen oxides (if applicable)	NO _x	-	mg/kWh							
GWP of the refrigerant		2088	kg CO _{2 ep} (100 years)							
Contact details	Amata N Muang,	Nakorn Ind Chonburi	lustrial Esta 20000, Thai	te ila		a Roh, Am	phur			
					alt degradation coefficient air cond					
Where information relation	tes to mu	lti-split ai	r conditione	rs	the test result and performance of	lata mav b	e obtai	ned on the		

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

					NFORMATION(1)				
Model(s): Information to	-			h 1					
Outdoor: PUH'					Indoor: PEFY-P63VMF	HS2-E×4 u	nits		
Outdoor heat exchanger									
Indoor heat exchanger o Indication if the heater i				2.5	haatar: no				
					son, parameters for the wa	rmer and c	older he	ating se	asons are
optional.	iarea ioi	ine averag	se nearing s	ca	son, parameters for the wa	illici alia c	older lie	ating se	asons are
Item	Symbol	Value	Unit	_	Item	Symbol		Value	Unit
				1	Seasonal space heating	~ J			
Rated heating capacity	P _{rated,h}	31.50	kW		energy efficiency	$\eta_{s,h}$		178.0	%
Dealered besting same	oity for	nort load	at indoor	1	Declared coefficient of	performa	nce or	gas ı	utilization
Declared heating capacitemperature 20 °C and of					efficiency / auxiliary en	ergy factor	for pa	rt load	at given
lemperature 20°C and o	utdoor to	imperature	- 1 -		outdoor temperatures T _j				_
$T_j = -7 ^{\circ}C$	Pdh	27.87	kW		$T_j = -7 ^{\circ}C$	COP_d		3.00	%
$T_j = +2 ^{\circ}C$	Pdh	16.96	kW		$T_j = +2 {}^{\circ}C$	COP_d		3.89	%
$T_j = +7 ^{\circ}C$	Pdh	10.90	kW		$T_j = +7 ^{\circ}C$	COP_d		6.93	%
$T_j = + 12 ^{\circ}C$	Pdh	5.72	kW		$T_j = + 12 ^{\circ}C$	COP_d		10.44	%
$T_j = bivalent$	Pdh	27.99	kW		$T_j = bivalent$	COP_d		3.03	9/o
temperature	D.II	10.00	4		temperature			2.20	
T_j = operation limit	Pdh	19.29	kW		T_j = operation limit	COP_d		2.29	%
For air-to-water heat			1 337		For water-to-air heat pumps: T _i = - 15 °C (if	COD			0/
pumps: $T_j = -15$ °C (if	Pun	-	kW		,	COP_d		-	0/0
$T_{OL} < -20 ^{\circ}\text{C}$		-	1		T _{OL} < -20 °C) For water-to-air heat				-
Rivolant tamparatura	T_{biv}	-7.1	°C		pumps: Operation limit	T_{ol}			°C
Bivalent temperature	1 biv	-7.1			temperature	ı ol			
		-			temperature				1
Degradation co-			1						1
efficient heat pumps**	C_{dh}	0.25	-						
Power consumption in n	nodes oth	er than 'ac	ctive mode'		Supplementary heater				
Off mode	P_{OFF}	0.000	kW		Electric back-up	elbu		0.000	kW
On mode	1 OFF	0.000	K VV		heating capacity *	eibu		0.000	K W
Thermostat-off mode	P_{TO}	0.068	kW		Type of energy input				
Crankcase heater mode	P_{CK}	0.044	kW		Standby mode	P_{SB}		0.063	kW
Other items				1		•			
				Т	For air-to-air heat				
Capacity control	variable				pumps: Nominal air	_	11100	m³	/h
Capacity control	, unitable				flow rate, outdoor		11100		, 11
		1		╀	measured				
Sound power level,	т	90 O	dB		For water-/brine-to-air				
indoor / outdoor measured	L_{WA}	80.0	uБ		heat pumps: Rated brine or water flow			m³	i/h
Emissions of nitrogen				╁	rate, outdoor heat	_	_	111	/11
oxides (if applicable)	NO_x	-	mg/kWh		exchanger				
oxides (ii applicable)			1 00	t					
GWP of the refrigerant		2088	kg CO _{2 ep} (100 years)						
	MITCLI	olelii m			IGLIMED DDODLIGTG (TI	IAH AMP	CO T	TD	
Contact details					NSUMER PRODUCTS (TF , 700/406 Moo 7, Tambon				
Contact uctans			20000, Tha			DOII THA K	on, Alli	piiui	
** If C ₊ is not determine					alt degradation coefficient of	of heat nun	ns shall	be 0.24	5.
					s, the test result and perfor				
		-			oination of indoor unit(s) re		-		

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

Model(s): Information to	-			n t		/ 111	00 F. C	٠,			
Outdoor boat exchanger					Indoor: PEFY-P50VM	/IH	52-E×6 ui	nits			
Outdoor heat exchanger of Indoor heat exchanger of the control of											
Type: compressor driver											
if applicable: driver of c											
Item	Symbol	Value	Unit		Item	Sv	mbol		Valu	ie.	Unit
Item	By IIIC 01			ľ		_			,	<u> </u>	CIIIt
Rated cooling capacity	$P_{\text{rated},c}$	33.50	kW		Seasonal space cooling energy efficiency	$\eta_{s,}$	с		349.	0	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27°/19°C (dry/wet bulb)					Declared energy efficien auxiliary energy facto temperatures $T_{\rm j}$	-	_				-
$T_j = +35 ^{\circ}\text{C}$	Pdc	33.50	kW		$T_j = +35 ^{\circ}\text{C}$	EF	ER_d		4.81		0/o
$T_j = +30 ^{\circ}\text{C}$	Pdc	24.68	kW		$T_{i} = +30 {}^{\circ}\text{C}$	EF	ER_d		7.32		0/o
$T_j = +25 ^{\circ}\text{C}$	Pdc	15.87	kW		$T_i = +25 ^{\circ}\text{C}$	EF	ER_d		11.4	0	%
$T_j = +20 ^{\circ}\text{C}$	Pdc	12.77	kW		$T_j = +20 ^{\circ}C$	EF	ER_d		15.8	3	0/0
Degradation co- efficient air conditioners**	C_{d}	0.25	-								
Power consumption in n	nodes oth	er than 'a	ctive mode'								
Off mode	P_{OFF}	0.000	kW		Crankcase heater mode]	P_{CK}		0.04	3	kW
Thermostat-off mode	P_{TO}	0.069	kW		Standby mode]	P_{SB}		0.06	3	kW
Other items											
Capacity control	variable				For air-to-air a conditioner: Nominal a flow rate, outdoomeasured		-	12000	I	m³/ł	1
Sound power level, outdoor	L_{WA}	80.0	dB								
if engine driven: Emissions of nitrogen oxides		-	mg/kWh fuel input GCV								
GWP of the refrigerant		2088	kg CO _{2 ep} (100 years)								
Contact details	Amata N Muang,	Nakorn Ind Chonburi	dustrial Esta 20000, Thai	te ila		n D	Oon Hua R	oh, Amp	hur		
** If C _d is not determine	ed by mea	asurement	then the def	aı	ult degradation coefficien	t ai	r conditio	ners sha	ll be	0.25	5.
Where information relat	tes to mu	lti-split ai	ir conditione	ers	s, the test result and perfe	orn	nance data	a may be	obta	ine	d on the
basis of the monformer	of the a	utdoor ve	t with a see	1	singtion of indoor unit(a)			d britha	***	f.	atrimam am

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

		1 11	02001		11 010111111111111111111111111111111111				
Model(s): Information to	-			h t	the information relates:				
Outdoor: PUH					Indoor: PEFY-P50VMI	HS2-E×6 u	nits		
Outdoor heat exchanger									
Indoor heat exchanger o									
Indication if the heater i									
Parameters shall be decoptional.	lared for	the averag	ge heating s	ea	son, parameters for the wa	rmer and c	older he	ating s	seasons are
Item	Symbol	Value	Unit		Item	Symbol		Valu	e Unit
Rated heating capacity	P _{rated,h}	37.50	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$		169.0) %
Declared heating capa temperature 20 °C and c					Declared coefficient of efficiency / auxiliary en outdoor temperatures T _i	-		-	
T _j = - 7 °C	Pdh	31.44	kW		$T_j = -7$ °C	COP_d		2.65	%
$T_j = + 2 ^{\circ}C$	Pdh	20.19	kW		$T_j = +2 ^{\circ}C$	COP_d		3.96	0∕0
$T_j = +7$ °C	Pdh	12.98	kW		$T_j = +7$ °C	COP_d		6.06	0∕o
$T_j = + 12 ^{\circ}C$	Pdh	7.81	kW		$T_j = + 12 ^{\circ}C$	COP_d		10.43	%
$T_j = bivalent$	Pdh	31.87	kW		$T_j = bivalent$	COP_d		2.78	%
temperature					temperature				
T_j = operation limit	Pdh	20.40	kW		T_j = operation limit	COP_d		2.19	%
For air-to-water heat					For water-to-air heat	COD			
pumps: $T_j = -15$ °C (if	Pdh	-	kW		pumps: $T_j = -15$ °C (if	COP_d		-	%
$T_{OL} < -20 ^{\circ}\text{C}$			_		$T_{OL} < -20 ^{\circ}\text{C}$				
Bivalent temperature	$T_{\rm biv}$	-6.1	°C		For water-to-air heat pumps: Operation limit	T_{ol}		-	°C
			1		temperature				
Degradation co- efficient heat pumps**	C_{dh}	0.25	<u> </u> -						
Power consumption in n	nodes oth	er than 'ac	tive mode'		Supplementary heater				
			1						7
Off mode	P_{OFF}	0.000	kW		Electric back-up heating capacity *	elbu		0.000	kW
Thermostat-off mode	P_{TO}	0.069	kW		Type of energy input				
Crankcase heater mode	P_{CK}	0.043	kW		Standby mode	P_{SB}		0.063	kW
Other items				L					
Capacity control	variable				For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	14400	m	3/h
Sound power level,					For water-/brine-to-air				
indoor / outdoor measured	L_{WA}	83.5	dB		heat pumps: Rated brine or water flow	-	-	m	³ /h
Emissions of nitrogen oxides (if applicable)	NO _x	-	mg/kWh		rate, outdoor heat exchanger				
GWP of the refrigerant		2088	kg CO _{2 ep} (100 years)						
	MITSUI	BISHI EL	ECTRIC CO	ON.	SUMER PRODUCTS (TI	HAILAND) CO., L'	TD.	
Contact details					, 700/406 Moo 7, Tambon				
			20000, Tha						
** If C _d is not determine					alt degradation coefficient	of heat pun	nps shall	be 0,2	25.
					s, the test result and perfor				
	e of the or	utdoor uni	t, with a co	mł	pination of indoor unit(s) re	ecommende	ed by the	manu	facturer or
importer									

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

		PK	ODUCT	<u> </u>	NFORMATION(1)					
Model(s): Information to										,
				: I	PEFY-P63VMHS2-E×4	units,	PEFY	-P50VM	1HS2-E	$\times 2$ units
Outdoor heat exchanger										
Indoor heat exchanger o				_						
Type: compressor driver										
if applicable: driver of c										
Item	Symbol	Value	Unit			Symb	ol		Value	Unit
Rated cooling capacity	$P_{\text{rated,c}}$	40.00	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$			338.0	%
Declared cooling capa outdoor temperatures T_j bulb)					Declared energy efficient auxiliary energy factor temperatures T_j					
$T_j = +35 ^{\circ}\text{C}$	Pdc	40.00	kW		$T_j = +35 ^{\circ}\text{C}$	EER_d			4.57	%
$T_{j} = +30 {}^{\circ}\text{C}$	Pdc	29.47	kW		$T_{j} = +30 {}^{\circ}\text{C}$	EER_d			6.71	%
$T_i = +25 ^{\circ}\text{C}$	Pdc	18.95	kW		· ·	EER_d			11.43	%
$T_j = +20 ^{\circ}C$	Pdc	_	kW		*	EER _d			13.86	%
Degradation co- efficient air conditioners**	· C _d	0.25	-							
Power consumption in modes other than 'active mode'										
Off mode Thermostat-off mode	$\begin{array}{c} P_{OFF} \\ P_{TO} \end{array}$		kW kW		Crankcase heater mode Standby mode	P_{CK} P_{SB}			0.051 0.055	
Other items			<u> </u>							
Capacity control	variable				For air-to-air ai conditioner: Nominal ai flow rate, outdoo measured	ir _		15000	m ³ /	/h
Sound power level, outdoor	L _{WA}	80.5	dB	L						
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	Amata Na Muang, C	akorn Ind Chonburi	lustrial Estat 20000, Thai	te. ila		n Don	Hua R	oh, Amp	phur	
					alt degradation coefficient					
Where information relat	tes to mult	ti-split ai	r conditione	ers	s, the test result and perfo	rmano	ce data	ı may be	obtain	ed on the

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

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

Model(s): Information to identify the model(s) to which the information relates: Outdoor: PUHY-EP350YNW-A.TH (-BS) Indoor: PEFY-P63VMHS2-E×4 units, PEFY-P50VMHS2-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 kW Rated heating capacity Prated,h 45.00 162.0 $\eta_{s,h}$ energy efficiency gas utilization Declared coefficient of performance or Declared heating capacity for part load at indoor efficiency / auxiliary energy factor for part load at given temperature 20 °C and outdoor temperature T_i outdoor temperatures T_i $T_i = -7$ °C $T_i = -7$ °C Pdh 33.56 kW COP_d 2.72 $T_i = +2 \, ^{\circ}C$ $T_i = +2 \, ^{\circ}C$ Pdh 24.23 kW COP_d 3.51 % $T_i = +7$ °C $T_i = +7$ °C Pdh 15.58 kW COP_d 6.32 **%** $T_i = +12 \,{}^{\circ}\text{C}$ Pdh $T_i = +12 \,{}^{\circ}C$ COP_d 7.86 kW 9.58 <u>%</u> $T_i = bivalent$ $T_i = bivalent$ Pdh 37.90 kW COP_d 2.98 % temperature temperature kW T_i = operation limit Pdh 26.01 T_i = operation limit COP_d 2.27 % For water-to-air heat For air-to-water heat pumps: $T_i = -15$ °C (if Pdh pumps: $T_i = -15$ °C (if COP_d kW % $T_{OL} < -20$ °C) $T_{OL} < -20 \, {}^{\circ}\text{C}$ For water-to-air heat Bivalent temperature $T_{\rm biv}\,$ -5.9 °C pumps: Operation limit °C T_{ol} temperature Degradation co- C_{dh} 0.25 efficient heat pumps** Power consumption in modes other than 'active mode' Supplementary heater Electric back-up Off mode Poff 0.000kW elbu 0.000kW heating capacity * Thermostat-off mode P_{TO} 0.060 kW Type of energy input Crankcase heater mode P_{CK} 0.051 kW Standby mode P_{SB} 0.055 kW Other items air-to-air pumps: Nominal air variable 16200 m³/h Capacity control flow rate, outdoor measured Sound power level, For water-/brine-to-air outdoor L_{WA} 82.5 dB indoor heat pumps: Rated brine or water flow m³/h measured outdoor heat Emissions of nitrogen rate, mg/kWh exchanger oxides (if applicable) kg CO2 ep 2088 GWP of the refrigerant (100 years) 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 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

		PK	ODUCT	11	NFORMATION(1)				
Model(s): Information to						: DEEX	. D501/1		3374
				:	PEFY-P71VMHS2-E×5	units, PEFY	7-P50VN	ИHS2-Е	$\times 1$ unit
Outdoor heat exchanger Indoor heat exchanger o									
Type: compressor driver									
if applicable: driver of c									
Item	Symbol	Value	Unit		Item S	Symbol		Value	Unit
nem	Symbol	Value	Ollit	ì		-		varue	T
Rated cooling capacity	$P_{\text{rated},c}$	45.00	kW		Seasonal space cooling renergy efficiency	ls,c		338.0	%
Declared cooling capa	city for	part load	l at given		Declared energy efficience	y ratio or g	as utiliz	ation ef	ficiency /
outdoor temperatures T _j	and indoo	or 27°/19°	'C (dry/wet		auxiliary energy factor	for part	load at	given	outdoor
bulb)					temperatures T _j				
$T_j = +35 ^{\circ}\text{C}$	Pdc	45.00	kW		$T_i = +35 ^{\circ}\text{C}$	EER_d		4.30	%
$T_{j} = +30 {}^{\circ}\text{C}$	Pdc	33.16	kW		$T_i = +30 ^{\circ}\text{C}$	EER _d		7.03	%
$T_i = +25 ^{\circ}C$	Pdc	21.32	kW		$T_i = +25 ^{\circ}\text{C}$	EER _d		10.16	%
$T_i = +20 ^{\circ}C$	Pdc	16.12	kW		•	EER _d		16.36	%
,					J	ū			1
Degradation co-			1						1
_	C_d	0.25	-						
conditioners**									
Power consumption in n									
Off mode	P_{OFF}	0.000	kW		Crankcase heater mode	P_{CK}		0.054	kW
Thermostat-off mode	P _{TO}	0.057	kW		Standby mode	P_{SB}			kW
Thermostat-off mode	- 10	0.057			bunday mode	* SB		0.052	KW
Other items									
					For air-to-air air				
G 1					conditioner: Nominal air		1/200	3	/I_
Capacity control	variable				flow rate, outdoor	. -	16200	m³/	'n
					measured				
Sound power level, outdoor	L_{WA}	82.5	dB						
if engine driven:			mg/kWh						
Emissions of nitrogen			fuel input						
oxides			GCV						
GWP of the refrigerant		2088	kg CO _{2 ep} (100 years)						
	MITSUB	SISHI ELI	ECTRIC CC)N	SUMER PRODUCTS (T	HAILAND)) CO., L'	ΓD.	
Contact details	Amata N	akorn Ind	lustrial Estat	te	, 700/406 Moo 7, Tambon	Don Hua R	oh, Amp	phur	
			20000, Thai						
** If C _d is not determine	d by meas	surement	then the def	aı	ılt degradation coefficient	air conditio	ners sha	ll be 0.2	25.
Where information relat	tes to mul	ti-split ai	r conditione	ers	, the test result and perfor	mance data	a may be	e obtain	ed on the

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

Model(s): Information to identify the model(s) to which the information relates: Outdoor: PUHY-EP400YNW-A.TH (-BS) Indoor: PEFY-P71VMHS2-E×5 units, PEFY-P50VMHS2-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. Value Unit Item Symbol Value Unit Item Symbol Seasonal space heating 50.00 kW 161.0 % 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 $T_i = -7$ °C Pdh 35.63 kW $T_i = -7 \, ^{\circ}C$ COP_d 2.89 $T_i = +2 \, ^{\circ}C$ $T_i = +2 \, ^{\circ}C$ 3.40 Pdh 26.92 kW COP_d **%** $T_i = +7$ °C $T_i = +7$ °C Pdh 17.31 kW COP_d 7.00 % $T_i = + 12 \,{}^{\circ}\text{C}$ Pdh $T_i = +12 \,{}^{\circ}C$ COP_d 9.69 kW % $T_i = bivalent$ $T_i = bivalent$ Pdh 41.54 kW COP_d 2.91 % temperature temperature kW T_i = operation limit T_i = operation limit Pdh 25.96 COP_d 2.18 % For water-to-air heat For air-to-water heat pumps: $T_i = -15$ °C (if pumps: $T_i = -15$ °C (if Pdh kW COP_d % $T_{OL} < -20 \, {}^{\circ}\text{C}$ $T_{OL} < -20 \, {}^{\circ}\text{C}$ For water-to-air heat $T_{\rm biv}$ -5.6 °C pumps: Operation limit °C Bivalent temperature T_{ol} temperature co- C_{dh} Degradation 0.25 efficient heat pumps** Power consumption in modes other than 'active mode' Supplementary heater back-up kW Off mode Poff 0.000 kW elbu 0.000 heating capacity * Thermostat-off mode P_{TO} 0.057 kW Type of energy input 0.052 kW Crankcase heater mode PCK 0.054 kW Standby mode P_{SB} Other items For air-to-air heat pumps: Nominal air m³/h 16200 variable Capacity control flow rate, outdoor measured power Sound level, For water-/brine-to-air dΒ 84.5 heat pumps: indoor outdoor L_{WA} brine or water flow m³/h measured Emissions of nitrogen outdoor rate, heat mg/kWh exchanger oxides (if applicable) kg CO₂ ep 2088 GWP of the refrigerant (100 years) 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 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

		PK	ODUCT.	11	NFORMATION(1)					
Model(s): Information to										
				: J	PEFY-P63VMHS2-E×4	uni	ts, PEFY	-P50VN	1HS2-E	\times 4 units
Outdoor heat exchanger										
Indoor heat exchanger o				_						
Type: compressor driver				_						
if applicable: driver of c			motor							
Item	Symbol	Value	Unit		Item	_	nbol		Value	Unit
Rated cooling capacity	$P_{\text{rated,c}}$	50.00	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$			340.0	%
Declared cooling capa outdoor temperatures T_j bulb) $T_j = +35 \text{ °C}$		or 27°/19°			Declared energy efficien auxiliary energy facto temperatures T_j $T_j = +35$ °C		or part			
$T_j = +30 ^{\circ}\text{C}$	Pdc	-	kW		· ·	EE	_		6.42	%
$T_j = +36$ °C	Pdc		kW		· ·	EE	_		10.54	%
*	Pdc		-		$T_i = +20 \text{ °C}$				16.31	
$T_j = +20 ^{\circ}C$	ruc	14.34	kW		1 _j = + 20 C	EE	K _d		10.51	%
Degradation co- efficient air conditioners**	· C _d	0.25	-							
Power consumption in n	nodes othe	er than 'ac	tive mode'							
Off mode Thermostat-off mode	$\begin{array}{c} P_{OFF} \\ P_{TO} \end{array}$		kW kW		Crankcase heater mode Standby mode		CK SB		0.054 0.052	
Other items										
Capacity control	variable				For air-to-air a conditioner: Nominal a flow rate, outdoomeasured	I -		17100	m³/	'h
Sound power level, outdoor	L_{WA}	83.5	dB	L						
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	Amata N Muang, O	akorn Ind Chonburi	lustrial Esta 20000, Thai	te. ila		n D	on Hua R	oh, Amp	ohur	
•					alt degradation coefficien					
Where information relat	tes to mul	ti-split ai	r conditione	rs	s, the test result and perfe	orm	ance data	may be	obtain	ed on the

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

 $^{(1) \ \} This information is based on COMMISSION REGULATION (EU) 2016/2281$

PRODUCT INFORMATION(1) Model(s): Information to identify the model(s) to which the information relates: Outdoor: PUHY-EP450YNW-A.TH (-BS) Indoor: PEFY-P63VMHS2-E×4 units, PEFY-P50VMHS2-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 Rated heating capacity P_{rated,h} 56.00 kW 152.0 % $\eta_{s,h}$ 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 38.07 $T_i = -7$ °C COP_d kW 2.61 % $T_i = +2$ °C 30.15 $T_i = +2 \, ^{\circ}C$ 3.09 Pdh kW COP_d **%** $T_j = +7 \,^{\circ}C$ $T_i = +7 \, ^{\circ}C$ Pdh 19.38 kW COP_d 6.82 % $T_j = + 12 \,{}^{\circ}\text{C}$ Pdh 10.11 $T_i = + 12 \,{}^{\circ}\text{C}$ COP_d kW 10.48 **%** $T_j = bivalent$ $T_j = bivalent$ Pdh 44.37 kW COP_d 2.95 **%** temperature temperature T_i = operation limit Pdh 25.50 kW T_i = operation limit COP_d 2.08 % For water-to-air heat For air-to-water heat pumps: $T_i = -15$ °C (if pumps: $T_i = -15$ °C (if Pdh kW COP_d % $T_{OL} < -20 \, {}^{\circ}\text{C})$ $T_{OL} < -20 \, {}^{\circ}\text{C}$ For water-to-air heat $T_{\rm biv}$ -4.6 °C pumps: Operation limit °C Bivalent temperature temperature co- C_{dh} Degradation 0.25 efficient heat pumps** Power consumption in modes other than 'active mode' Supplementary heater Electric back-up Off mode Poff 0.000 kW elbu 0.000 kW heating capacity * Thermostat-off mode P_{TO} 0.063 kW Type of energy input P_{SB} Crankcase heater mode PCK 0.054 kW Standby mode 0.052 kW Other items For air-to-air heat pumps: Nominal air 18300 variable m³/h Capacity control flow rate, outdoor measured power level For water-/brine-to-air Sound dB indoor 88.5 outdoor L_{WA} heat pumps: m³/h measured brine or water outdoor heat Emissions of nitrogen rate. NO. mg/kWh exchanger oxides (if applicable) kg CO₂ ep 2088 GWP of the refrigerant (100 years) 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 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

					12 022121222011(2)				
Model(s): Information to Outdoor: PUHY	•			1 t	he information relates: Indoor: PEFY-P63VM	IHS2-E×8 u	nits		
Outdoor heat exchanger									
Indoor heat exchanger o	f air cond	litioner: ai	ir						
Type: compressor driver	n vapour o	compressi	on						
if applicable: driver of c	ompresso	r: 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	$\eta_{s,c}$		315.0	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27°/19°C (dry/wet bulb)					Declared energy efficien auxiliary energy factor temperatures T_j	for part		giver	outdoor
$T_j = +35 ^{\circ}C$	Pdc	56.00	kW		J	EER_d		4.51	%
$T_j = +30 ^{\circ}\text{C}$	Pdc	41.26	kW		$T_j = +30 ^{\circ}\text{C}$	EER_d		5.44	9/o
$T_j = +25$ °C	Pdc	26.53	kW		$T_j = +25$ °C	EER_d		9.71	%
$T_j = +20 ^{\circ}C$	Pdc	15.31	kW		$T_j = +20 ^{\circ}C$	EER_d		15.69	%
					·				
Degradation co-									
efficient air	\mathbf{C}_{d}	0.25	-						
conditioners**									
Power consumption in n	nodes oth	er than 'ac	ctive mode'						
Off mode	P_{OFF}	0.000	kW		Crankcase heater mode	P_{CK}		0.047	kW
Thermostat-off mode	P_{TO}	0.070	kW		Standby mode	P_{SB}		0.059	
Other items									
Capacity control	variable				For air-to-air a conditioner: Nominal a flow rate, outdoo measured	_	18900	m ²	³ /h
Sound power level, outdoor	L_{WA}	82.0	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	Amata N Muang,	Nakorn Ind Chonburi	lustrial Esta 20000, Thai	te.		n Don Hua F	Roh, Amp	ohur	
** If C _d is not determine	ed by mea	surement	then the def	aı	ılt degradation coefficient	t air conditio	oners sha	ll be 0.	25.
Where information relat	tes to mu	lti-split ai	r conditione	ers	, the test result and perfe	ormance dat	a may be	e obtair	ned on the
hasis of the performance	of the or	atdoor uni	t with a cor	րհ	vination of indoor unit(s)	recommend	ed by the	manui	facturer or

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

		PK	ODUCI	11.	NFORMATION(1)					
Model(s): Information to	-			h t						
Outdoor: PUH					Indoor: PEFY-P63VMI	HS2-E×8 u	nits			
Outdoor heat exchanger										
Indoor heat exchanger o					1					
Indication if the heater i					son, parameters for the wa	rmor and a	older he	otina	con	cone ara
optional.	iaieu ioi	me averag	ge nearing s	cai	son, parameters for the wa	illiel allu C	older lie	aung	sca	sons are
Item	Symbol	Value	Unit		Item	Symbol		Valı	ie.	Unit
	-			1	Seasonal space heating	Бушоог				
Rated heating capacity	P _{rated,h}	63.00	kW		energy efficiency	$\eta_{s,h}$		149.	0	%
D 1 11 .:	٠, ۲	. 1 1	1	1	Declared coefficient of	performa	nce or	gas	ut	ilization
Declared heating capa temperature 20 °C and c					efficiency / auxiliary en	ergy factor	for pa	rt loa	nd a	at given
temperature 20°C and C	utdoor te	inperature	, 1 j -		outdoor temperatures T _j					
$T_j = -7$ °C	Pdh	41.40	kW		$T_j = -7 ^{\circ}C$	COP_d		2.56		%
$T_j = +2 {}^{\circ}C$	Pdh	33.92	kW		$T_j = +2 ^{\circ}C$	COP_d		3.27		0/o
$T_j = +7$ °C	Pdh	21.81	kW		$T_j = +7 ^{\circ}C$	COP_d		6.01		%
$T_{j} = + 12 {}^{\circ}\text{C}$	Pdh	11.29	kW		$T_j = + 12 ^{\circ}\text{C}$	COP_d		9.14		0/o
$T_j = bivalent$	Pdh	45.80	kW		$T_j = bivalent$	COP_d		3.19		%
temperature	D.II				temperature					
T_j = operation limit	Pdh	28.46	kW		T_j = operation limit	COP_d		2.45	_	%
For air-to-water heat			1 337		For water-to-air heat	COD				07
pumps: $T_j = -15$ °C (if	Pull	Ī	kW		pumps: $T_j = -15$ °C (if $T_{OL} < -20$ °C)	COP_d		-	ľ	%
$T_{OL} < -20 ^{\circ}\text{C}$		-	_		For water-to-air heat					
Rivelent temperature	$T_{\rm biv}$	-2.9	°C		pumps: Operation limit	T_{ol}				°C
Bivalent temperature	1 biv	-2.7	C		temperature	¹ ol		[C
			_		temperature				_	
Degradation co-	_									
efficient heat pumps**	C_{dh}	0.25	-							
	nodos oth	or than 'ac	rtiva mada!		Cumplementers heater					
Power consumption in n	nodes our	ei man ac	- mode		Supplementary heater					
Off mode	P_{OFF}	0.000	kW		Electric back-up	elbu		0.000	0	kW
	_		_		heating capacity *			0.00		
Thermostat-off mode	P_{TO}	0.070	kW		Type of energy input					
Crankcase heater mode	P_{CK}	0.047	kW		Standby mode	P_{SB}		0.059	9	kW
Other items				ı						
Other items				H	For air-to-air heat		l	1		
					pumps: Nominal air					
Capacity control	variable				flow rate, outdoor	-	21900	r	n³/h	1
					measured					
Sound power level,					For water-/brine-to-air					
indoor / outdoor	L_{WA}	85.5	dB		heat pumps: Rated					
measured					brine or water flow	-	-	r	n³/ŀ	1
Emissions of nitrogen	NO_x		mg/kWh		rate, outdoor heat					
oxides (if applicable)	110 _X		mg x vv n		exchanger					
CWD -f.th		2000	kg CO ₂ ep							
GWP of the refrigerant		2088	(100 years)							
	MITSUI	BISHI EL	ECTRIC CO	ON	ISUMER PRODUCTS (TI	HAILAND) CO., L'	TD.		
Contact details					700/406 Moo 7, Tambon					
			20000, Tha							
** If C _d is not determine					Ilt degradation coefficient	of heat pun	nps shall	be 0,	25.	
					, the test result and perfor					d on the
basis of the performance	e of the or	utdoor uni	t, with a co	mb	oination of indoor unit(s) re	ecommende	ed by the	man	ufa	cturer or
importer										

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

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