PRODUCT INFORMATION PUHY-HP***YNW-A

For Europe Regulation

 ${\bf PRODUCT\ INFORMATION (1)}$

Model(s): Information to	•					•.						
Outdoor: PUHY-				PE	FY-M50VMA(L)-A1×4 u	nits						
Outdoor heat exchanger												
Indoor heat exchanger of Type: compressor driver												
if applicable: driver of co												
		Value			Itam C	ymbol		Value	Tinit			
Item	Symbol	T alue	Unit			•		Value	Unit			
Rated cooling capacity	P _{rated,c}	22.40	kW		Seasonal space cooling η_i	s,c		257.0	%			
Declared cooling capacity for part load at given outdoor temperatures T _j and indoor 27°/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures T_i							
, and the second	Pdc	22.40	kW	ı	3	ER_d	1	3.47	<u>%</u>			
	Pdc		- 		=	_			4			
J		16.51	kW		3	ER _d		5.11	%			
J	Pdc	10.61	kW		J	ER _d		8.50	%			
$T_j = +20 ^{\circ}C$	Pdc	9.30	kW		$T_j = +20 ^{\circ}\text{C}$	ER_d		11.08	%			
Degradation co-		<u> </u>	1						1			
_	C_{d}	0.25	<u> </u>									
conditioners**	Ca	0.20	[
	Power consumption in modes other than 'active mode'											
_			_		~	70		2 222				
	P _{OFF}		kW		Crankcase heater mode	P _{CK}			kW			
Thermostat-off mode	P_{TO}	0.023	kW		Standby mode	P_{SB}		0.055	kW			
Other items												
other mans			- 	H	For air-to-air air			\Box				
Capacity control	variable				ror an-to-air air conditioner: Nominal air flow rate, outdoor measured		11400	m ³ /	'h			
Sound power level, outdoor	L _{WA} 7	73	dB									
if engine driven: Emissions of nitrogen oxides			mg/kWh fuel input GCV									
GWP of the refrigerant		2088	kg CO _{2 ep} (100 years)									
	MITSUB!	MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD.										
Contact details					700/406 Moo 7, Tambon 1							
	Muang, Chonburi 20000, Thailand											
** If C_d is not determined by measurement then the default degradation coefficient air conditioners shall be 0.25.												
		_			the test result and perfor		-					
basis of the performance	e of the ou	ıtdoor un	nit, with a co	om	bination of indoor unit(s)	recommer	ided by	the man	ıufacturer			

PRODUCT INFORMATION(1)

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

Model(s): Information to Outdoor: PUHY	•				he information relates: EFY-M50VMA(L)-A1×4 u	nits			
Outdoor heat exchanger									
Indoor heat exchanger o									
Indication if the heater is				_					
Parameters shall be decl	ared for t	he averag	e heating se	as	on, parameters for the war	mer and co	lder hea	ting se	easons are
Item	Symbol	Value	Unit		Item	Symbol		Valu	ie Unit
Rated heating capacity	P _{rated,h}	22.40	kW		Seasonal space heating	$\eta_{s,h}$		143.	.0 %
Declared heating capacitemperature 20 °C and o					$\begin{array}{ll} Declared & coefficient & of \\ efficiency \ / & auxiliary & en \\ outdoor & temperatures & T_j \end{array}$	-		_	
$T_i = -7$ °C	Pdh	10.11	kW		$T_j = -7 ^{\circ}C$	COP_d		2.33	9/o
$T_i = +2 ^{\circ}C$	Pdh	6.15	kW		$T_i = +2 ^{\circ}C$	COP_d		3.55	- 9∕₀
$T_i = +7 ^{\circ}\text{C}$	Pdh	3.96	kW		$T_i = +7 ^{\circ}\text{C}$	COP_d		4.98	9∕₀
$T_{i} = +12 {}^{\circ}\text{C}$	Pdh	6.91	kW		$T_i = +12 ^{\circ}\text{C}$	COP_d		6.56	%
T_{j} = bivalent temperature	Pdh	11.43	kW		T_j = bivalent temperature	COP_d		2.01	%
T_i = operation limit	Pdh	11.43	kW		T_i = operation limit	COP_d		2.01	9∕₀
			1		For water-to-air heat	u			
For air-to-water heat pumps: $T_j = -15$ °C (if			1 337		pumps: $T_i = -15$ °C (if	COP_d			0/
	Pull	-	kW		$T_{OL} < -20 ^{\circ}\text{C}$	COP_d		-	%
$T_{OL} < -20 ^{\circ}\text{C}$					1 _{OL} < -20 C)				
Bivalent temperature	$T_{\rm biv}$	-10.0	$^{\circ}\!\mathbb{C}$		For water-to-air heat pumps: Operation limit	T_{ol}		_	°C
					temperature	01			
			1		1				
Degradation co-	C_{dh}	0.25	_						
efficient heat pumps**									
Power consumption in n	nodes oth	er than 'ao	ctive mode'		Supplementary heater				
Off mode	P_{OFF}	0.055	kW		Electric back-up heating capacity *	elbu		0.000) kW
Thermostat-off mode	P_{TO}	0.116	kW		Type of energy input				
Crankcase heater mode	P_{CK}	0.023	kW		Standby mode	P_{SB}		0.133	3 kW
Other items									
Capacity control	variable				For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	11400	n	n³/h
Sound power level, indoor / outdoor measured	L_{WA}	73	dB		For water-/brine-to-air heat pumps: Rated brine or water flow	-	-	n	n³/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)						
	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								
	ed by mea	surement	then the det	faı	ılt degradation coefficient				
		_			, the test result and perfor		-		
basis of the performance	e of the o	utdoor ui	nit, with a c	on	nbination of indoor unit(s)	recommen	nded by	the m	anufacturer

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Model(s): Information to			l(s) to which	the information relates:		,		
Outdoor: PUHY-				EFY-M63VMA(L)-A1×4	units			
Outdoor heat exchanger								
Indoor heat exchanger of								
Type: compressor driven								
if applicable: driver of co	_							
Item	Symbol	Value	Unit		Symbol		Value	Unit
Rated cooling capacity	P _{rated,c}	28.00	kW	Seasonal space cooling energy efficiency	N _{s,c}		256.0	%
Declared cooling capacity for part load at given outdoor temperatures T _j and indoor 27°/19°C (dry/wet bulb)				Declared energy efficient auxiliary energy factor temperatures T_j				-
$T_j = +35 ^{\circ}\text{C}$	Pdc	28.00	kW	$T_j = +35 ^{\circ}\text{C}$	EER_d		3.64	%
=	Pdc	20.63	kW		EER_d		5.08	%
•	Pdc		kW		EER_d		8.28	<u>%</u>
•	Pdc	12.3	kW	3	EER_d		10.48	%
Degradation co- efficient air conditioners**	C_d	0.25	-					
Power consumption in n	nodes other	r than 'ac	ctive mode'					
Off mode	P_{OFF} P_{TO}		kW kW	Crankcase heater mode Standby mode	P_{CK} P_{SB}			kW kW
Other items								
Capacity control	variable			For air-to-air ai conditioner: Nominal ai flow rate, outdoo measured	r _	12600	m ³ /	h
Sound power level, outdoor	L _{WA} 7	' 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 Na Muang, C	korn Ind honburi	lustrial Estate 20000, Thail		Don Hua F	Roh, Amp	phur	
Where information relat	tes to mult	i-split ai	r conditioner	ault degradation coefficient rs, the test result and perfo mbination of indoor unit(s	rmance dat	a may be	e obtaine	ed on the
or importer	. or the ou	itaoor un	iit, with a co	momation of muoof unit(s) iccommic	ided by i	ine man	uracturer

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

Outdoor: PUHY	•		* *		tne information refates: EFY-M63VMA(L)-A1×4 ι	ınits				
Outdoor heat exchanger										
Indoor heat exchanger o										
Indication if the heater i	s equippe	ed with a s	supplementa	ry	heater: no					
Parameters shall be decl	ared for t	he averag	e heating se	as	son, parameters for the war	mer and	colder he	ating	seas	sons are
Item	Symbol	Value	Unit	_	Item	Symbo	1	Va	lue	Unit
Rated heating capacity	P _{rated,h}	28.00	kW		Seasonal space heating	$\eta_{s,h} \\$		14	6.0	%
Declared heating capatemperature 20 °C and c		-			$\begin{array}{c} Declared & coefficient & of \\ efficiency \ / & auxiliary & en \\ outdoor & temperatures & T_j \end{array}$	-		_		
$\begin{split} &T_{j} = -7 \text{ °C} \\ &T_{j} = +2 \text{ °C} \\ &T_{j} = +7 \text{ °C} \\ &T_{j} = +12 \text{ °C} \\ &T_{j} = \text{bivalent} \\ &\text{temperature} \\ &T_{j} = \text{operation limit} \\ &\text{For air-to-water heat pumps: } &T_{j} = -15 \text{ °C (if} \\ &T_{OL} < -20 \text{ °C)} \\ &\text{Bivalent temperature} \\ &\text{Degradation} &\text{co-} \end{split}$	Pdh T _{biv}	12.63 7.69 4.94 9.60 14.28 14.28	kW kW kW kW kW		$T_j = -7$ °C $T_j = +2$ °C $T_j = +7$ °C $T_j = +12$ °C $T_j = \text{bivalent}$ temperature $T_j = \text{operation limit}$ For water-to-air heat pumps: $T_j = -15$ °C (if $T_{OL} < -20$ °C) For water-to-air heat pumps: Operation limit temperature	COP _d COP _d COP _d COP _d COP _d COP _d		2.20 3.53 5.40 7.00 1.90	5 0 4 6	% % % % % % % % % % % % % % % % % % %
efficient heat pumps**	C _{dh}	0.25	-							
Power consumption in n	nodes oth	er than 'a	ctive mode'		Supplementary heater					
Off mode	P_{OFF}	0.055	kW		Electric back-up heating capacity *	elbu		0.0	00	kW
Thermostat-off mode	P_{TO}	0.116	kW		Type of energy input					
Crankcase heater mode	P_{CK}	0.023	kW		Standby mode	P_{SB}		0.1	33	kW
Other items				L						
Capacity control	variable				For air-to-air heat pumps: Nominal air flow rate, outdoor measured	-	12600		m³/	'h
Sound power level, indoor / outdoor measured	L_{WA}	77	dB		For water-/brine-to-air heat pumps: Rated brine or water flow	_	-		m³/	Th
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)							
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									
Where information relat	tes to mu	lti-split ai	ir conditione	ers	ult degradation coefficient s, the test result and performbination of indoor unit(s	rmance	data may l	oe ob	tain	ed on the

or importer.

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