PRODUCT FICHE ACCORDING TO COMMISSION DELEGATED REGULATIONS (EU) 811/2013 OF 18^{TH} FEBRUARY 2013 AND (EU) 813/2013 OF 2^{ND} AUGUST 2013

Make		Hitachi YUTAKI M		I 16 kW				
Model	RASM-6\							
Type of heat source		Air-to-v	vater					
Low-temperature heat pump			No					
Equipped with supplementary heater		No	No					
Heat pump combination heater		Yes						
Climate condition		Averag	e					
Temperature application	Temperature application		mperature	e (35°C)				
Applied standards EN14511, EN14825 (Space Heating), EN16147				(DHW), EN12102				
Rated Heat Output (1)	P _{rated}	16.0	kW	Seasonal space heating energy efficiency	ης	153	%	
Declared capacity for part load at outdoor temperature Tj				Declared coefficient of performance for part load at				
	T =	1		outdoor temperature Tj	T :		1	
Tj = -7°C (A Condition)	Pdh	13.80	kW	Tj = -7°C (A Condition)	COPd	2.40	kW/kW	
Tj = +2°C (B Condition)	Pdh	8.40	kW	Tj = +2°C (B Condition)	COPd	3.90	kW/kW	
Tj = +7°C (C Condition)	Pdh	5.40	kW	Tj = +7°C (C Condition)	COPd	5.00	kW/kW	
Tj = +12°C (D Condition)	Pdh	3.50	kW	Tj = +12°C (D Condition)	COPd	6.00	kW/kW	
Tj = biv	Pdh	13.80	kW	Tj = biv	COPd	2.40	kW/kW	
Tj = TOL (E Condition)	Pdh	14.10	kW	Tj = TOL (E Condition)	COPd	2.30	kW/kW	
Tj = -15°C (if TOL < -20°C)	Pdh		kW	Tj = -15°C (if TOL < -20°C)	COPd		kW/kW	
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-10	°C	
Cycling interval capacity for heating	P _{cych}		kW	Cycling interval efficiency	COP _{cyc}		-	
Degradation co-efficient (2)	Cdh	0.90	-	Heating water operating limit	WTOL	55	°C	
Power consumption in modes other than active mode				Supplementary heater				
Off mode	P _{OFF}	0.013	kW	Rated heat output				
Thermostat-off mode	P _{TO}	0.000	kW					
Standby mode	P _{SB}	0.013	kW	Type of energy input				
Crankcase heater mode	P _{CK}	0.000	kW					
Other items		1	,		•	•		
Capacity control		Variable		Rated air flow rate, outdoors			m³/h	
Sound power level,	Lwa	-/69	dB	Rated water flow rate, indoor	1		m³/h	
indoors/outdoors				heat exchanger				
Annual energy consumption	QHE	8287	kWh	Rated brine or water flow rate, outdoor heat exchanger			m³/h	
For heat pump combination heate	r	1	1		1	1	1	
Declared load profile		XL		Water heating energy efficiency	hwH	114.04	%	
Capacity of heat pump	P _{rated}	7.272	kW	Reference hot water temperature	О wн	49.3	°C	
Daily electricity consumption	Qelec		kWh	Vol. of DHW accounted for in test		374.7	Litres	
Annual electricity consumption	AEC		kWh	Standby heat loss / day	1		kWhr	
Contact Details:		d Heating		Ltd., Údarás Industrial Estate, Baile M	lhia Íra Ca	Cardo D4		

⁽¹⁾ For heat pumps space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

⁽²⁾ If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

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Make		Hitachi	YUTAKI M	1 16 kW				
Model		RASM-6						
Type of heat source		Air-to-v						
Low-temperature heat pump	No							
Equipped with supplementary hea	No	-						
Heat pump combination heater		Yes						
Climate condition	Averag	<u> </u>						
Temperature application				ature (55°C)				
Applied standards EN14511, EN14	825 (Space			,				
Rated Heat Output (1)	P _{rated}	14.0	kW	Seasonal space heating energy efficiency	ης	125	%	
Declared capacity for part load at outdoor temperature Tj				Declared coefficient of performance for part load at				
	1			outdoor temperature Tj	1 .		1	
Tj = -7°C (A Condition)	Pdh	11.20	kW	Tj = -7°C (A Condition)	COPd	1.60	kW/kW	
Tj = +2°C (B Condition)	Pdh	6.82	kW	Tj = +2°C (B Condition)	COPd	3.35	kW/kW	
Tj = +7°C (C Condition)	Pdh	4.38	kW	Tj = +7°C (C Condition)	COPd	4.35	kW/kW	
Tj = +12°C (D Condition)	Pdh	3.60	kW	Tj = +12°C (D Condition)	COPd	5.50	kW/kW	
Tj = biv	Pdh	11.20	kW	Tj = biv	COPd	1.60	kW/kW	
Tj = TOL (E Condition)	Pdh	10.50	kW	Tj = TOL (E Condition)	COPd	1.40	kW/kW	
Tj = -15°C (if TOL < -20°C)	Pdh		kW	Tj = -15°C (if TOL < -20°C)	COPd		kW/kW	
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-10	°C	
Cycling interval capacity for heating	P _{cych}		kW	Cycling interval efficiency	COP _{cyc}		-	
Degradation co-efficient	Cdh	0.9	_	Heating water operating limit	WTOL	55	°C	
Power consumption in modes other than active mode				Supplementary heater				
Off mode	P _{OFF}	0.013	kW	Rated heat output				
Thermostat-off mode	P _{TO}	0.000	kW					
Standby mode	P _{SB}	0.013	kW	Type of energy input			1	
Crankcase heater mode	Pck	0.000	kW	Type of energy input				
Other items	1 CK	0.000	I KVV		<u> </u>			
Capacity control		Variable		Rated air flow rate, outdoors			m³/h	
Sound power level,	L _{WA}	-/69	dB	Rated water flow rate, indoor			m³/h	
indoors/outdoors		·		heat exchanger				
Annual energy consumption	Qне	8170	kWh	Rated brine or water flow rate,			m³/h	
For heat pump combination heate	 er			outdoor heat exchanger				
	-						T	
Declared load profile		XL		Water heating energy efficiency	hwн	114.04	%	
Capacity of heat pump	P _{rated}	7.272	kW	Reference hot water temperature	Ө wн	49.3	°C	
Daily electricity consumption	Qelec		kWh	Vol. of DHW accounted for in test		374.7	Litres	
Annual electricity consumption	AEC		kWh	Standby heat loss / day			kWhr	
Contact Details:	Firebiro	Heating	Solutions	Ltd., Údarás Industrial Estate, Baile M	lhic Íre Co	Cork D1	2 11/51	

⁽¹⁾ For heat pumps space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(2) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.