



Product fiche

according to COMMISSION DELEGATED REGULATIONS

(EU)No 811/2021 of 18 February 2013 & (EU)No 813/2021 of 02 August 2013

Models:

Outdoor Unit: Solis Eco Monoblock

Indoor Unit:

None

Air-to-water heat pump

Yes

Brine-to-water heat pump

No

Low temperature heat pump

No

Equipped with a supplementary heater

No

Heat Pump Combination Heater

Yes

Parameters shall be declared for

Medium-temperature applications

Parameters shall be declared for

Average Climate Conditions

Item Symbol	Value	Unit	Item Symbol	Value	Unit
Rated heat output(*)	Prated	4.248	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$ 125.2 %
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj			Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj		
Tj=-7°C	Pdh	3.758	kW	Tj=-7°C	COPd 2.12 -
Degradation co-efficient (**)	Cdh	1.00	-	Tj=+2°C	COPd 3.01 -
Tj=+2°C	Pdh	2.357	kW	Tj=+7°C	COPd 4.04 -
Degradation co-efficient (**)	Cdh	1.00	-	Tj=+12°C	COPd 6.70 -
Tj=+7°C	Pdh	2.211	kW	Tj = bivalent temperature	COPd 2.12 -
Degradation co-efficient (**)	Cdh	0.99	-	Tj = operation limit temperature	COPd 1.90 -
Tj=+12°C	Pdh	2.864	kW	Operation limit temperature	TOL -10 °C
Degradation co-efficient (**)	Cdh	0.99	-	Heating water operating limit temperature	WTOL 60 °C
Tj = bivalent temperature	Pdh	3.758	kW	Supplementary heater	
Tj = operation limit temperature	Pdh	4.370	kW	Rated heat output (*)	Psup - kW
Bivalent temperature	Tbiv	-7	°C	Type of energy input	-
Power consumption in modes other than active mode			Rated air flow rate, outdoors		
Off mode	P _{OFF}	0.013	kW		3200 m ³ /h
Thermostat-off mode	P _{TO}	0.013	kW		
Standby mode	P _{SB}	0.013	kW		
Crankcase heater mode	P _{CK}	0.043	kW		
Other items					
Capacity control		variable			
Sound power level, indoors/outdoors	LWA	64	dB(A)		
Annual Energy consumption	QHE	2739	kWh		

For heat pump combination heater:

Declared load profile	XL			Water heating energy efficiency	η_{wh}	103.4	%
Daily electricity consumption	Q_{elec}	8.0042	kWh	Reference hot water temperature	θ'_{wh}	55.52	°C
Annual electricity consumption	AEC	1621	kWh	Standby heat loss	Pstby	0.2825	kW
Capacity of heat pump	Prated	5.046	kW	Vol. Of DHW accounted for in test		275	L
Contact details	Name and address of the supplier.						

(*) For heat pump 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).

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

(***) If the declared TOL is lower than the Tdesignh of the considered climate, then the outdoor dry bulb temperature is equal to Tdesignh for the part load

Models: Outdoor Unit: Solis Eco Monoblock

Indoor Unit: None

Air-to-water heat pump Yes

Brine-to-water heat pump No

Low temperature heat pump No

Equipped with a supplementary heater No

Heat Pump Combination Heater Yes

Parameters shall be declared for Low-temperature applications

Parameters shall be declared for Average Climate Conditions

Item Symbol	Value	Unit	Item Symbol	Value	Unit
Rated heat output (*) Prated	4.046	kW	Seasonal space heating energy efficiency $\eta_{s,h}$	178.9	%
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj			Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj		
Tj=-7°C Pdh	3.579	kW	Tj=-7°C COPd	3.11	-
Degradation co-efficient (**) Cdh	1.00	-	Tj=+2°C COPd	4.18	-
Tj=+2°C Pdh	2.248	kW	Tj=+7°C COPd	6.10	-
Degradation co-efficient (**) Cdh	1.00	-	Tj=+12°C COPd	8.58	-
Tj=+7°C Pdh	2.556	kW	Tj = bivalent temperature COPd	3.11	-
Degradation co-efficient (**) Cdh	0.99	-	Tj = operation limit temperature COPd	2.83	-
Tj=+12°C Pdh	2.968	kW	Operation limit temperature TOL	-10	°C
Degradation co-efficient (**) Cdh	0.99	-	Heating water operating limit temperature WTOL	60	°C
Tj = bivalent temperature Pdh	3.579	kW	Supplementary heater Rated heat output (*) P _{sup}	-	kW
Tj = operation limit temperature Pdh	4.114	kW	Type of energy input	-	
Bivalent temperature Tbiv	-7	°C	Rated air flow rate, outdoors	3200	m ³ /h
Power consumption in modes other than active mode			Other items		
Off mode P _{OFF}	0.013	kW	Capacity control	variable	
Thermostat-off mode P _{TO}	0.013	kW	Sound power level, indoors/outdoors LWA	64	dB(A)
Standby mode P _{SB}	0.013	kW	Annual Energy consumption QHE	1838	kWh
Crankcase heater mode P _{CK}	0.043	kW			

For heat pump combination heater:

Declared load profile	XL			Water heating energy efficiency η_{wh}	103.4	%
Daily electricity consumption Q_{elec}	8.0042	kWh	Reference hot water temperature θ'_{wh}	55.52	°C	
Annual electricity consumption AEC	1621	kWh	Standby heat loss P _{stby}	0.2825	kW	
Capacity of heat pump Prated	5.046	kW	Vol. Of DHW accounted for in test	275	L	
Contact details	Name and address of the supplier.					

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating P_{designh}, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating sup(Tj).

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

(***) If the declared TOL is lower than the T_{designh} of the considered climate, then the outdoor dry bulb temperature is equal to T_{designh} for the part load

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