MONOBLOC INVERTER

HEAT PUMP

PRODUCT FICHE LOW TEMPERATURE 35°

Product Fiche Conerning the Commission Delegated Regulations Requirements for Heat Pump Space Heaters & Heat Pump Combination Heaters - 813/2013 / 811/2013	EcoVolt INNOVATION IN ENERGY

Model:	**GSHVSH-6AA1**
Air to Water Heat Pump	Yes
Water to Water Heat Pump	No
Brine to Water Heat Pump	No
Low Temperature Heat Pump	No
Equipped with Supplementary Heater	No
Heat Pump Combination Heater	Yes
Parameters Shall be declared for	Low Temperature Applications (35°C)
Parameters Shall be declared for	Average Climate Conditions

Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output	Prated	6.80	kW	Seasonal space heating energy efficiency	η_s	211	%
Declared capacity at part load at outdoor temperature T_j				Declared coefficient of performance for part load at outdoor temperature T_j			
Tj = -7°C	Pdh	6.019	kW	Tj = -7°C	COPd	3.35	-
Tj = + 2°C	Pdh	3.725	kW	Tj = + 2°C	COPd	5.62	-
Tj = + 7°C	Pdh	2.578	kW	Tj = + 7°C	COPd	6.06	-
Tj = + 12°C	Pdh	3.128	kW	Tj = + 12°C	COPd	8.23	-
Tj = biv	Pdh	6.019	kW	Tj = biv	COPd	3.35	-
Tj = TOL	Pdh	6.424	kW	Tj = TOL	COPd	3.01	-
Tj = - 15°C (if TOL < -20°C)	Pdh	N/A	kW	Tj = - 15°C (if TOL < -20°C)	COPd	N/A	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
Degradation co-efficient	Cdh	0.99	-	Heating water operating limit temperature	WTOL	75	°C
Power consumption in modes other than active mode				*Supplementary heater*			
Off mode	P_{OFF}	0.13	kW	Rated Heat Output	P_{SUP}	N/A	kW
Thermostat-off mode	P_{TO}	0.13	kW				
Standby mode	P_{SB}	0.13	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.43	kW				
Other items							
Capacity control	variable			Rated air flow, outdoors		2000	m3 /h
Sound power level, indoors/outdoors	L_{WA}	57	dB(A)				
Annual energy consumption	Q_{HE}	2626	kWh				
For heat pump combination heater:							
Declared Load Profile	L			Water heating energy efficiency	η_{wh}	135.9	%
				Water heating energy efficiency class			
Daily electricity consumption	Q_{elec}	3.822	kWh	Daily fuel consumption	Q_{fuel}	/	kWh
Annual electricity consumption	AEC	753.3	kWh/a	Annual fuel consumption	AFC	/	GJ
Volume of water accounted for in test	200	L		Standby heat loss Pstby	Pstby	0.071	kW
				Reference hot water temperature	0'wh	43.56	°C
Contact Details	***Ecovolt Limited - Unit 3C/D, Rosemount Park Dr, Rosemount Business Park, Dublin, D11 KD5E***						

MONOBLOC INVERTER

HEAT PUMP

PRODUCT FICHE LOW TEMPERATURE 55°

Product Fiche Conerning the Commission Delegated Regulations Requirements for Heat Pump Space Heaters & Heat Pump Combination Heaters - 813/2013 / 811/2013	EcoVolt INNOVATION IN ENERGY

Model:	**GSHVSH-6AA1**
Air to Water Heat Pump	Yes
Water to Water Heat Pump	No
Brine to Water Heat Pump	No
Low Temperature Heat Pump	No
Equipped with Supplementary Heater	No
Heat Pump Combination Heater	Yes
Parameters Shall be declared for	Medium Temperature Applications (55°C)
Parameters Shall be declared for	Average Climate Conditions

Item	Symbol	Value	Unit
Rated heat output	Prated	6.92	kW
Declared capacity at part load at outdoor temperature T_j			
Tj = -7°C	Pdh	6.125	kW
Tj = + 2°C	Pdh	3.804	kW
Tj = + 7°C	Pdh	2.573	kW
Tj = + 12°C	Pdh	2.854	kW
Tj = biv	Pdh	6.125	kW
Tj = TOL	Pdh	5.925	kW
Tj = - 15°C (if TOL < -20°C)	Pdh	N/A	kW
Bivalent temperature	Tbiv	-7	°C
Degradation co-efficient	Cdh	0.99	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.013	kW
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	L_{WA}	57	dB(A)
Annual energy consumption	Q_{HE}	3583	kWh
For heat pump combination heater:			
Declared Load Profile	L		
Daily electricity consumption	Q_{elec}	3.822	kWh
Annual electricity consumption	AEC	753.3	kWh/a
Volume of water accounted for in test	200	L	

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	157	%
Declared coefficient of performance for part load at outdoor temperature T_j			
Tj = -7°C	COPd	2.42	-
Tj = + 2°C	COPd	3.94	-
Tj = + 7°C	COPd	5.39	-
Tj = + 12°C	COPd	5.98	-
Tj = biv	COPd	2.42	-
Tj = TOL	COPd	2.15	-
Tj = - 15°C (if TOL < -20°C)	COPd	N/A	-
Operation limit temperature	TOL	-10	°C
Heating water operating limit temperature	WTOL	75	°C
Supplementary heater			
Rated Heat Output	P_{SUP}	N/A	kW
Type of energy input	Electric		
Rated air flow, outdoors		2000	m3 /h
Water heating energy efficiency	η_{wh}	135.9	%
Water heating energy efficiency class			
Daily fuel consumption	Q_{fuel}	/	kWh
Annual fuel consumption	AFC	/	GJ
Standby heat loss Pstby	Pstby	0.071	kW
Reference hot water temperature	0'wh	43.56	°C

Contact Details	***Ecovolt Limited - Unit 3C/D, Rosemount Park Dr, Rosemount Business Park, Dublin, D11 KD5E***