



PRODUCT FICHE LOW TEMPERATURE 35°

Product Fiche Concerning the Commission Delegated Regulations Requirements for Heat Pump Space Heaters & Heat Pump Combination Heaters - 813/2013 / 811/2013							
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_{ls}	211	%
Declared capacity at part load at outdoor temperature T_j				Declared coefficient of performance for part load at outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	Pdh	6.019	kW	$T_j = -7^{\circ}\text{C}$	COPd	3.35	-
$T_j = +2^{\circ}\text{C}$	Pdh	3.725	kW	$T_j = +2^{\circ}\text{C}$	COPd	5.62	-
$T_j = +7^{\circ}\text{C}$	Pdh	2.578	kW	$T_j = +7^{\circ}\text{C}$	COPd	6.06	-
$T_j = +12^{\circ}\text{C}$	Pdh	3.128	kW	$T_j = +12^{\circ}\text{C}$	COPd	8.23	-
$T_j = \text{biv}$	Pdh	6.019	kW	$T_j = \text{biv}$	COPd	3.35	-
$T_j = \text{TOL}$	Pdh	6.424	kW	$T_j = \text{TOL}$	COPd	3.01	-
$T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	Pdh	N/A	kW	$T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COPd	N/A	-
Bivalent temperature				Operation limit temperature			
Tbiv				TOL			
-7 °C				-10 °C			
Degradation co-efficient				Heating water operating limit temperature			
Cdh				WTOL			
0.99 -				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	m ³ /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}	135.5	%
				Water heating energy efficiency class			
Daily electricity consumption	Q _{elec}	3.44	kWh	Daily fuel consumption	Q _{fuel}	/	kWh
Annual electricity consumption	AEC	757	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						

PRODUCT FICHE MEDIUM TEMPERATURE 55°

Product Fiche Concerning the Commission Delegated Regulations Requirements for Heat Pump Space Heaters & Heat Pump Combination Heaters - 813/2013 / 811/2013							
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	Item	Symbol	Value	Unit
Rated heat output	Prated	6.92	kW	Seasonal space heating energy efficiency	η_s	157	%
<i>Declared capacity at part load at outdoor temperature T_j</i>				<i>Declared coefficient of performance for part load at outdoor temperature T_j</i>			
$T_j = -7^\circ\text{C}$	Pdh	6.125	kW	$T_j = -7^\circ\text{C}$	COPd	2.42	-
$T_j = +2^\circ\text{C}$	Pdh	3.804	kW	$T_j = +2^\circ\text{C}$	COPd	3.94	-
$T_j = +7^\circ\text{C}$	Pdh	2.573	kW	$T_j = +7^\circ\text{C}$	COPd	5.39	-
$T_j = +12^\circ\text{C}$	Pdh	2.854	kW	$T_j = +12^\circ\text{C}$	COPd	5.98	-
$T_j = \text{biv}$	Pdh	6.125	kW	$T_j = \text{biv}$	COPd	2.42	-
$T_j = \text{TOL}$	Pdh	5.925	kW	$T_j = \text{TOL}$	COPd	2.15	-
$T_j = -15^\circ\text{C}$ (if TOL < -20°C)	Pdh	N/A	kW	$T_j = -15^\circ\text{C}$ (if TOL < -20°C)	COPd	N/A	-
Bivalent temperature				Operation limit temperature			
Tbiv				TOL			
-7 °C				-10 °C			
Degradation co-efficient				Heating water operating limit temperature			
Cdh				WTOL			
0.99 -				75 °C			
<i>Power consumption in modes other than active mode</i>				<i>Supplementary heater</i>			
Off mode	P _{OFF}	0.013	kW	Rated Heat Output	P _{SUP}	N/A	kW
Thermostat-off mode	P _{TO}	0.013	kW				
Standby mode	P _{SB}	0.013	kW	Type of energy input	Electric		
Crankcase heater mode	P _{CK}	0.043	kW				
<i>Other items</i>							
Capacity control	variable			Rated air flow, outdoors		2000	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	57	dB(A)				
Annual energy consumption	Q _{HE}	3583	kWh				
<i>For heat pump combination heater:</i>							
Declared Load Profile	L			Water heating energy efficiency	η_{wh}	135.5	%
				Water heating energy efficiency class			
Daily electricity consumption	Q _{elec}	3.44	kWh	Daily fuel consumption	Q _{fuel}	/	kWh
Annual electricity consumption	AEC	757	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	O _{wh}	43.56	°C
Contact Details	Ecovolt Limited - Unit 3C/D, Rosemount Park Dr, Rosemount Business Park, Dublin, D11 KD5E						