

ERP DATA TABLE

according regulations 814/2013

Model(s):	LSGHP-40HT																																																																										
Air to water heat pump:	yes																																																																										
Water to water heat pump:	no																																																																										
Brine to water heat pump:	no																																																																										
Low temperature heat pump:	no																																																																										
Equiped with a supplementary heater:	no																																																																										
Heat pump combination heater:	no																																																																										
Parameters shall be declared for medium temperature application.																																																																											
Parameters shall be declared for average climate conditions.																																																																											
Item	Symbol	Value	Unit																																																																								
Rated heat Output	P_{rated}	29.6	kW																																																																								
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j																																																																											
$T_j = -7^\circ\text{C}$	P_{dh}	26.1	kW																																																																								
$T_j = +2^\circ\text{C}$	P_{dh}	16.0	kW																																																																								
$T_j = +7^\circ\text{C}$	P_{dh}	10.4	kW																																																																								
$T_j = +12^\circ\text{C}$	P_{dh}	4.4	kW																																																																								
$T_j = \text{bivalent temperature}$	P_{dh}	-	kW																																																																								
Annual energy consumption	Q_{HE}	198.0	GJ																																																																								
Biavalent temperature	T_{biv}	TOL	°C																																																																								
		Tdesignh																																																																									
Power consumption in modes other than active mode																																																																											
	P_{OFF}	0.000	kW																																																																								
	P_{TO}	0.021	kW																																																																								
	P_{SB}	0.005	kW																																																																								
	P_{CK}	-	kW																																																																								
Other items																																																																											
Capacity control	Variable																																																																										
Sound power level, indoors/outdoors	L_{wa}	-/80	dB																																																																								
<table border="1"> <thead> <tr> <th>Item</th> <th>Symbol</th> <th>Value</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>Seasonal space heating energy efficiency</td> <td>η_s</td> <td>113</td> <td>%</td> </tr> <tr> <td colspan="4">Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j</td> </tr> <tr> <td>$T_j = -7^\circ\text{C}$</td> <td>PERd</td> <td>96</td> <td>%</td> </tr> <tr> <td>$T_j = +2^\circ\text{C}$</td> <td>PERd</td> <td>120</td> <td>%</td> </tr> <tr> <td>$T_j = +7^\circ\text{C}$</td> <td>PERd</td> <td>117</td> <td>%</td> </tr> <tr> <td>$T_j = +12^\circ\text{C}$</td> <td>PERd</td> <td>111</td> <td>%</td> </tr> <tr> <td>$T_j = \text{bivalent temperature}$</td> <td>PERd</td> <td>-</td> <td>%</td> </tr> <tr> <td colspan="4">For air to water heat pumps:</td> </tr> <tr> <td>Operation limit temperature</td> <td>TOL</td> <td>-22</td> <td>°C</td> </tr> <tr> <td>Heating water operating limit</td> <td>WTOL</td> <td>65</td> <td>°C</td> </tr> <tr> <td colspan="4">Supplementary heater</td> </tr> <tr> <td>Rated heat output</td> <td>P_{sup}</td> <td>-</td> <td>kW</td> </tr> <tr> <td colspan="4" style="text-align: center;">monovalent</td> </tr> <tr> <td colspan="4">For air to water heat pumps:</td> </tr> <tr> <td>Rated air flow rate, outdoors</td> <td>-</td> <td>10000</td> <td>m³/h</td> </tr> <tr> <td colspan="4">For water or brine to water</td> </tr> <tr> <td>heat pumps: Rated brine or water flow rate, outdoor heat exchanger</td> <td>-</td> <td>-</td> <td>m³/h</td> </tr> </tbody> </table>				Item	Symbol	Value	Unit	Seasonal space heating energy efficiency	η_s	113	%	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j				$T_j = -7^\circ\text{C}$	PERd	96	%	$T_j = +2^\circ\text{C}$	PERd	120	%	$T_j = +7^\circ\text{C}$	PERd	117	%	$T_j = +12^\circ\text{C}$	PERd	111	%	$T_j = \text{bivalent temperature}$	PERd	-	%	For air to water heat pumps:				Operation limit temperature	TOL	-22	°C	Heating water operating limit	WTOL	65	°C	Supplementary heater				Rated heat output	P_{sup}	-	kW	monovalent				For air to water heat pumps:				Rated air flow rate, outdoors	-	10000	m³/h	For water or brine to water				heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating P_{design} and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating sup (T_j).																																																																											
Additional information required by COMMISSION REGULATION (EU) No 813/2013, Table 2:																																																																											
Emissions of nitrogen oxides:	Nox	40	mg/kWh																																																																								

1. according commission delegated regulation (EU) No 812/2013

LSGHP-40HT_ErP DATA TABLE_SEPTEMBER 2015

