

Model(s): ETVH16S23EA6V7 / EPRA18DAV37			
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 a supplementary heater: Yes			
Heat pump combination heater: Yes			
Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.			
Parameters shall be declared for average, colder and warmer climate conditions.			
Item	Symbol	Value	Unit
Rated heat output <sup>(3)</sup>	<i>Prated</i>	13	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature $T_j$			
$T_j = -7\text{ °C}$	<i>Pdh</i>	11.2	kW
$T_j = +2\text{ °C}$	<i>Pdh</i>	6.9	kW
$T_j = +7\text{ °C}$	<i>Pdh</i>	6.9	kW
$T_j = +12\text{ °C}$	<i>Pdh</i>	6.2	kW
$T_j$ = bivalent temperature	<i>Pdh</i>	12.2	kW
$T_j$ = operation limit temperature	<i>Pdh</i>	12.2	kW
For air-to-air heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$ )	<i>Pdh</i>	10.7	kW
Bivalent temperature	$T_{biv}$	-10	°C
Cycling interval capacity for heating	<i>Pcych</i>		kW
Degradation co-efficient <sup>(4)</sup>	<i>Cdh</i>		—
Power consumption in modes other than active mode			
Off mode	$P_{OFF}$	0.021	kW
Thermostat-off mode	$P_{TO}$	0.041	kW
Standby mode	$P_{SB}$	0.021	kW
Crankcase heater mode	$P_{CK}$	0.000	kW
Other items			
Capacity control	Variable		
Sound power level, indoor/outdoor	$L_{WA}$	44.0 / 54.0	dB
Annual energy consumption	$Q_{HE}$	7,211 26	kWh or GJ
For heat pump combination heater:			
Declared load profile	XL		
Daily electricity consumption	$Q_{elec}$	7.320	kWh
Annual electricity consumption	<i>AEC</i>	1,547	kWh
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Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_s$	140	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature $T_j$			
$T_j = -7\text{ °C}$	<i>COPd or PERd</i>	2.47 98.8	— or %
$T_j = +2\text{ °C}$	<i>COPd or PERd</i>	3.56 142.4	— or %
$T_j = +7\text{ °C}$	<i>COPd or PERd</i>	4.44 177.6	— or %
$T_j = +12\text{ °C}$	<i>COPd or PERd</i>	5.72 228.8	— or %
$T_j$ = bivalent temperature	<i>COPd or PERd</i>	2.19 87.6	— or %
$T_j$ = operation limit temperature	<i>COPd or PERd</i>	2.19 87.6	— or %
For air-to-air heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$ )	<i>COPd or PERd</i>	2.62 104.8	— or %
For air-to-water heat pumps: Operation limit temperature	<i>TOL</i>	-10	°C
Cycling interval efficiency	<i>COPcyc or PERcyc</i>		— or %
Heating water operating limit temperature	<i>WTOL</i>	55	°C
Equipped with a supplementary heater:			
Rated heat output <sup>(4)</sup>	<i>Psup</i>	6.0	kW
Type of energy input			
For air-to-water heat pumps: Rated air flow rate, outdoors	—	3,960	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	—		m³/h
Water heating energy efficiency	$\eta_{wh}$	108	%
Daily fuel consumption	$Q_{fuel}$		kWh
Annual fuel consumption	<i>AFC</i>		GJ

<sup>(3)</sup> ) 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)'.

<sup>(4)</sup> If 'Cdh' is not determined by measurement then the default degradation coefficient is 'Cdh'= 0,9.