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STIEBEL ELTRON

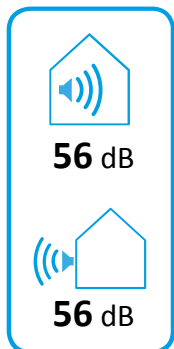
LWZ 304 SOL



A+



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2019

811/2013

Product datasheet: Combi heater to regulation (EU) no. 811/2013

		LWZ 304 SOL
		230143
Manufacturer		STIEBEL ELTRON
Load profile		XL
Energy efficiency class for central heating in moderate climates for medium temperature applications		A+
Energy efficiency class for central heating in moderate climates for low temperature applications		A+
Energy efficiency category for DHW heating under moderate climatic conditions		A
Rated heating output in moderate climates for average temperature applications (Prated)	kW	3
Rated heating output in moderate climates for low temperature applications (Prated)	kW	4
Annual energy consumption in moderate climates for average temperature applications (QHE)	kWh/a	2320
Annual energy consumption in moderate climates for low temperature applications (QHE)	kWh/a	2479
Annual power consumption in moderate climates (AEC)	kWh/a	1387
Seasonal room heating efficiency in moderate climates for average temperature applications (η_s)	%	100
Seasonal room heating efficiency in moderate climates for low temperature applications (η_s)	%	136
Energy efficiency for DHW heating (η_{wh}) under moderate climatic conditions	%	122
Sound power level internal	dB(A)	56
Sound power level external	dB(A)	56
Rated heating output in colder climates for average temperature applications (Prated)	kW	3
Rated heating output in colder climates for low temperature applications (Prated)	kW	4
Rated heating output in warmer climates for average temperature applications (Prated)	kW	3
Rated heating output in warmer climates for low temperature applications (Prated)	kW	4
Annual energy consumption in colder climates for average temperature applications (QHE)	kWh/a	3152
Annual energy consumption in colder climates for low temperature applications (QHE)	kWh/a	3333
Annual energy consumption in warmer climates for average temperature applications (QHE)	kWh/a	1499
Annual energy consumption in warmer climates for low temperature applications (QHE)	kWh/a	1481
Annual power consumption in colder climates (AEC)	kWh/a	1766
Annual power consumption in warmer climates (AEC)	kWh/a	1284
Seasonal room heating efficiency in colder climates for average temperature applications (η_s)	%	79
Seasonal room heating efficiency in colder climates for low temperature applications (η_s)	%	116
Seasonal room heating efficiency in warmer climates for average temperature applications (η_s)	%	108
Seasonal room heating efficiency in warmer climates for low temperature applications (η_s)	%	152
Energy efficiency for DHW heating (η_{wh}) under colder climatic conditions	%	96,38
Energy efficiency for DHW heating (η_{wh}) under warmer climatic conditions	%	131,76
Operation exclusively enabled during low load times		-



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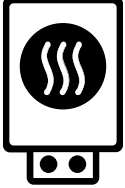




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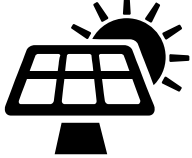
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STIEBEL ELTRON


LWZ 304 SOL

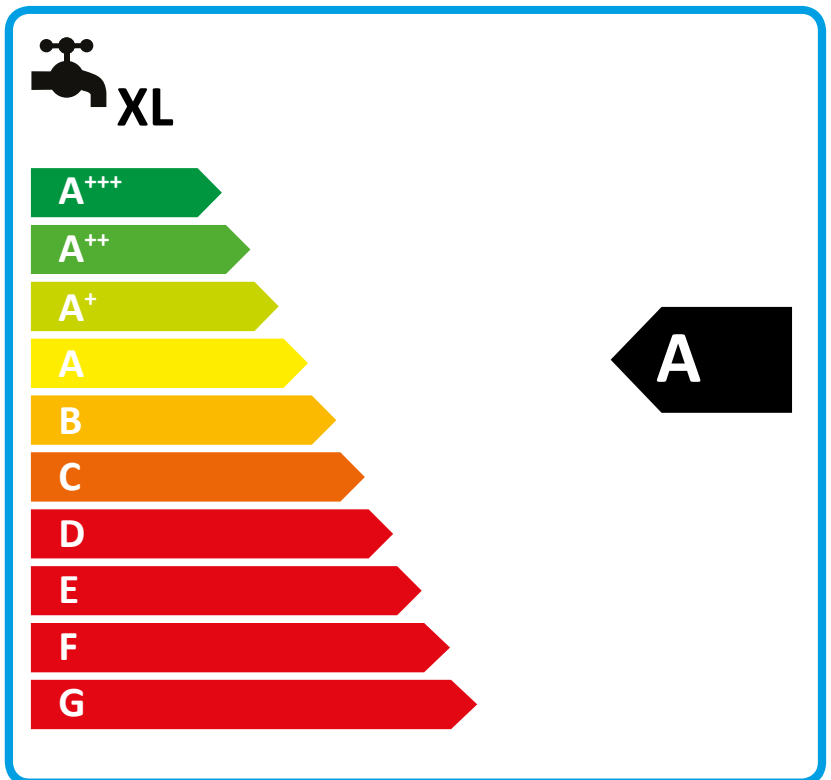
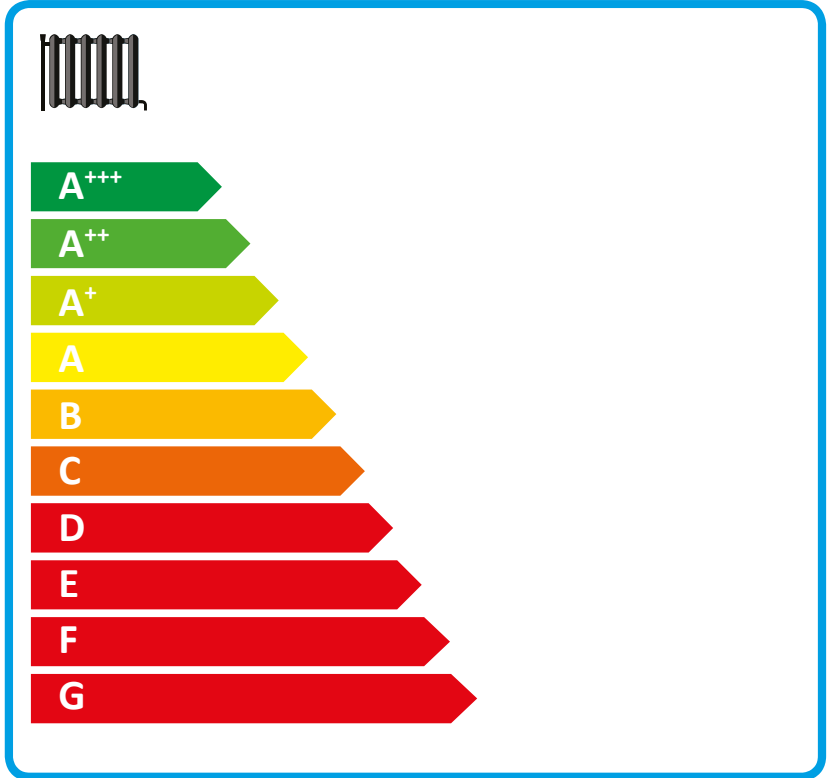






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Product datasheet: Composite system consisting of room heater and temperature controller to regulation (EU) no. 811/2013

		LWZ 304 SOL
		230143
Manufacturer		STIEBEL ELTRON
Seasonal room heating efficiency in moderate climates for average temperature applications (η_s)	%	100
Temperature controller class		VII
Contribution of temperature controller to room heating energy efficiency	%	3,5
Value of differential between room heating energy efficiency under moderate climatic conditions and that under colder climatic conditions	%	21
Value of differential between room heating energy efficiency under warmer climatic conditions and that under moderate climatic conditions	%	8
Energy efficiency class for central heating in moderate climates for medium temperature applications		A+
Energy efficiency category for DHW heating under moderate climatic conditions		A
Load profile		XL

Required details about room heater and combi heater with heat pump to regulation (EU) no. 813/2013 & 811/2013

		LWZ 304 SOL
		230143
Manufacturer		STIEBEL ELTRON
Heat source		Outside air
Low temperature heat pump		-
With booster heater		x
Combi boiler with heat pump		x
Rated heating output in colder climates for average temperature applications (Prated)	kW	3
Rated heating output in moderate climates for average temperature applications (Prated)	kW	3
Rated heating output in warmer climates for average temperature applications (Prated)	kW	3
Tj = -7 °C heating output, partial load range under moderate climatic conditions (Pdh)	kW	1,9
Tj = 2 °C heating output, partial load range under moderate climatic conditions (Pdh)	kW	3,6
Tj = 7 °C heating output, partial load range under moderate climatic conditions (Pdh)	kW	4,7
Tj = 12 °C heating output, partial load range under moderate climatic conditions (Pdh)	kW	5,9
Tj = dual mode temperature under moderate climatic conditions (Pdh)	kW	2,3
Tj = operating temperature limit under moderate climatic conditions (Pdh)	kW	1,2
For air/water heat pumps:Tj = -15 °C (if TOL< -20 °C) (Pdh)	kW	0,2
Dual mode temperature in moderate climates (Tbiv)	°C	-5
Seasonal room heating efficiency in colder climates for average temperature applications (ηs)	%	79
Seasonal room heating efficiency in moderate climates for average temperature applications (ηs)	%	100
Seasonal room heating efficiency in warmer climates for average temperature applications (ηs)	%	108
Tj = -7 °C COP, partial load range under moderate climatic conditions (COPd)		1,82
Tj = 2 °C COP, partial load range under moderate climatic conditions (COPd)		2,73
Tj = 7 °C COP, partial load range under moderate climatic conditions (COPd)		3,25
Tj = 12 °C COP, partial load range under moderate climatic conditions (COPd)		3,88
Tj = dual mode temperature under moderate climatic conditions (COPd)		2,1
Tj = operating temperature limit under moderate climatic conditions (COPd)		1,36
For air/water heat pumps:Tj= -15°C (if TOL< -20 °C) (COPd)		0,23
Heating water operating temperature limit (WTOL)	°C	0
Power consumption, OFF state (Poff)	W	12
Power consumption, thermostat OFF state (PTO)	W	82
Standby power consumption (PSB)	W	12
Power consumption, operating state, with crankcase heating (PCK)	W	12
Booster heater heating output (PSUB)	kW	1,65
Type of energy supply, booster heater		electric
Power control		Fixed
Sound power level external	dB(A)	56
Sound power level internal	dB(A)	56
Annual energy consumption in colder climates for average temperature applications (QHE)	kWh/a	3152
Annual energy consumption in moderate climates for average temperature applications (QHE)	kWh/a	2320
Annual energy consumption in warmer climates for average temperature applications (QHE)	kWh/a	1499
Load profile		XL
Annual power consumption in colder climates (AEC)	kWh/a	1766
Annual power consumption in moderate climates (AEC)	kWh/a	1387

Annual power consumption in warmer climates (AEC)	kWh/a	1284
Energy efficiency for DHW heating (Γ_{wh}) under moderate climatic conditions	%	122