



ENERGY

STIEBEL ELTRON

WPC 05



A++



A

45 dB



- 7 kW
- 5 kW
- 5 kW

2019

811/2013

Product datasheet: Combi heater to regulation (EU) no. 811/2013 / (S.I. 2019 No. 539 / Schedule 2)

		WPC 05
		232927
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	5
Rated heating output in moderate climates for low temperature applications (Prated)	kW	6
Annual energy consumption in moderate climates for average temperature applications (QHE)	kWh/a	3017
Annual energy consumption in moderate climates for low temperature applications (QHE)	kWh/a	2262
Annual power consumption in moderate climates (AEC)	kWh/a	1393
Seasonal room heating efficiency in moderate climates for average temperature applications (η_s)	%	134
Seasonal room heating efficiency in moderate climates for low temperature applications (η_s)	%	205
Energy efficiency for DHW heating (η_{wh}) under moderate climatic conditions	%	121
Sound power level internal	dB(A)	45
Special measures	For all special measures to be taken during assembly, installation or maintenance of the room heater, see the installation instructions	
Rated heating output in colder climates for average temperature applications (Prated)	kW	7
Rated heating output in colder climates for low temperature applications (Prated)	kW	7
Rated heating output in warmer climates for average temperature applications (Prated)	kW	5
Rated heating output in warmer climates for low temperature applications (Prated)	kW	6
Annual energy consumption in colder climates for average temperature applications (QHE)	kWh/a	4398
Annual energy consumption in colder climates for low temperature applications (QHE)	kWh/a	3254
Annual energy consumption in warmer climates for average temperature applications (QHE)	kWh/a	1967
Annual energy consumption in warmer climates for low temperature applications (QHE)	kWh/a	1473
Annual power consumption in colder climates (AEC)	kWh/a	1393
Annual power consumption in warmer climates (AEC)	kWh/a	1393
Seasonal room heating efficiency in colder climates for average temperature applications (η_s)	%	140
Seasonal room heating efficiency in colder climates for low temperature applications (η_s)	%	212
Seasonal room heating efficiency in warmer climates for average temperature applications (η_s)	%	133
Seasonal room heating efficiency in warmer climates for low temperature applications (η_s)	%	203
Energy efficiency for DHW heating (η_{wh}) under colder climatic conditions	%	121
Energy efficiency for DHW heating (η_{wh}) under warmer climatic conditions	%	121
Operation exclusively enabled during low load times		-



ENERGY

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WPC 05

Energy label for heating system components. It features a boiler icon, a radiator icon, and a tap icon labeled 'XL'. The radiator is rated A++ and the tap is rated A.

Energy label for a radiator. It features a radiator icon and a color scale from A+++ (green) to G (red). The radiator is rated A++.

Energy label for additional features. It includes four items, each with a plus sign and a square box: a solar panel, a hot water tank, a control panel with a hand icon, and a boiler. The control panel box contains an 'X'.

Energy label for a tap. It features a tap icon labeled 'XL' and a color scale from A+++ (green) to G (red). The tap is rated A.

Product datasheet: Composite system consisting of room heater and temperature controller to regulation (EU) no. 811/2013 / (S.I. 2019 No. 539 / Schedule 2)

		WPC 05
		232927
Manufacturer		STIEBEL ELTRON
Seasonal room heating efficiency in moderate climates for average temperature applications (η_s)	%	134
Temperature controller class		VII
Contribution of temperature controller to room heating energy efficiency	%	3.50
Room heating energy efficiency of composite system under moderate climatic conditions	%	138
Room heating energy efficiency of composite system under colder climatic conditions	%	144
Room heating energy efficiency of composite system under warmer climatic conditions	%	137
Value of differential between room heating energy efficiency under moderate climatic conditions and that under colder climatic conditions	%	6
Value of differential between room heating energy efficiency under warmer climatic conditions and that under moderate climatic conditions	%	1
Energy efficiency class for central heating in moderate climates for medium temperature applications		A++
Room heating energy efficiency class of composite system under moderate climatic conditions		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

		WPC 05
		232927
Manufacturer		STIEBEL ELTRON
Heat source		Brine
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	7
Rated heating output in moderate climates for average temperature applications (Prated)	kW	5
Rated heating output in warmer climates for average temperature applications (Prated)	kW	5
Tj = -7 °C heating output, partial load range in colder climates (Pdh)	kW	5.5
Tj = -7 °C heating output, partial load range under moderate climatic conditions (Pdh)	kW	5.30
Tj = -7 °C heating output, partial load range in warmer climates (Pdh)	kW	5.2
Tj = 2 °C heating output, partial load range in colder climates (Pdh)	kW	5.6
Tj = 2 °C heating output, partial load range under moderate climatic conditions (Pdh)	kW	5.50
Tj = 2 °C heating output, partial load range in warmer climates (Pdh)	kW	5.2
Tj = 7 °C heating output, partial load range in colder climates (Pdh)	kW	5.7
Tj = 7 °C heating output, partial load range under moderate climatic conditions (Pdh)	kW	5.60
Tj = 7 °C heating output, partial load range in warmer climates (Pdh)	kW	5.4
Tj = 12 °C heating output, partial load range in colder climates (Pdh)	kW	5.8
Tj = 12 °C heating output, partial load range under moderate climatic conditions (Pdh)	kW	5.70
Tj = 12 °C heating output, partial load range in warmer climates (Pdh)	kW	5.6
Tj = dual mode temperature in colder climates (Pdh)	kW	5.4
Tj = dual mode temperature under moderate climatic conditions (Pdh)	kW	5.20
Tj = dual mode temperature in warmer climates (Pdh)	kW	5.2
Tj = operating temperature limit in colder climates (Pdh)	kW	5.2
Tj = operating temperature limit under moderate climatic conditions (Pdh)	kW	5.20
Tj = operating temperature limit in warmer climates (Pdh)	kW	5.2
For air/water heat pumps: Tj = -15 °C (if TOL < -20 °C) (Pdh)	kW	5.20
Dual mode temperature in colder climates (Tbiv)	°C	-15
Dual mode temperature in moderate climates (Tbiv)	°C	-10
Dual mode temperature in warmer climates (Tbiv)	°C	2
Seasonal room heating efficiency in colder climates for average temperature applications (ηs)	%	140
Seasonal room heating efficiency in moderate climates for average temperature applications (ηs)	%	134
Seasonal room heating efficiency in warmer climates for average temperature applications (ηs)	%	133
Tj = -7 °C COP, partial load range in colder climates (COPd)		3.48
Tj = -7 °C COP, partial load range under moderate climatic conditions (COPd)		2.94
Tj = -7 °C COP, partial load range in warmer climates (COPd)		2.81
Tj = 2 °C COP, partial load range in colder climates (COPd)		3.92
Tj = 2 °C COP, partial load range under moderate climatic conditions (COPd)		3.49
Tj = 2 °C COP, partial load range in warmer climates (COPd)		2.81
Tj = 7 °C COP, partial load range in colder climates (COPd)		4.33
Tj = 7 °C COP, partial load range under moderate climatic conditions (COPd)		3.92
Tj = 7 °C COP, partial load range in warmer climates (COPd)		3.23
Tj = 12 °C COP, partial load range in colder climates (COPd)		4.68
Tj = 12 °C COP, partial load range under moderate climatic conditions (COPd)		4.44
Tj = 12 °C COP, partial load range in warmer climates (COPd)		4.08

Tj = dual mode temperature in colder climates (COPd)		3.24
Tj = dual mode temperature under moderate climatic conditions (COPd)		2.81
Tj = dual mode temperature in warmer climates (COPd)		2.81
Tj = operating temperature limit in colder climates (COPd)		2.81
Tj = operating temperature limit under moderate climatic conditions (COPd)		2.81
Tj = operating temperature limit in warmer climates (COPd)		2.81
For air/water heat pumps: Tj= -15 °C (if TOL < -20 °C) (COPd)		2.81
Operating temperature limit in moderate climates (TOL)	°C	-10
Heating water operating temperature limit (WTOL)	°C	65
Power consumption, OFF state (Poff)	W	0
Power consumption, thermostat OFF state (PTO)	W	54
Standby power consumption (PSB)	W	9
Power consumption, operating state, with crankcase heating (PCK)	W	0
Booster heater heating output in moderate climate (Psup)	kW	0.00
Type of energy supply, booster heater		electric
Power control		Fixed
Sound power level internal	dB(A)	45
Annual energy consumption in colder climates for average temperature applications (QHE)	kWh/a	4398
Annual energy consumption in moderate climates for average temperature applications (QHE)	kWh/a	3017
Annual energy consumption in warmer climates for average temperature applications (QHE)	kWh/a	1967
Flow rate, heat source side	m ³ /h	1,41
Load profile		XL
Daily power consumption in colder climates (QELEC)	kWh	6.39
Daily power consumption (Qelec)	kWh	6.39
Daily power consumption in warmer climates (QELEC)	kWh	6.39
Annual power consumption in colder climates (AEC)	kWh/a	1393
Annual power consumption in moderate climates (AEC)	kWh/a	1393
Annual power consumption in warmer climates (AEC)	kWh/a	1393
Energy efficiency for DHW heating (Γ_{wh}) under moderate climatic conditions	%	121
Special measures	For all special measures to be taken during assembly, installation or maintenance of the room heater, see the installation instructions	