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WPC 10 S

## STIEBEL ELTRON



**A++**



**A**

**49dB**

-dB



- 12 kW
- 9 kW
- 9 kW

2019

811/2013

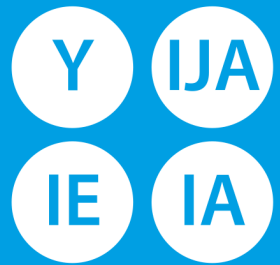
**Product datasheet: Combination heater to Regulation (EU) No 811/2013 (S.I. 2019 No. 539 / Programme 2)**

		<b>WPC 10 S</b>
		232939
Manufacturer		STIEBEL ELTRON
Load profile		XL
Space heating energy efficiency class under average climate conditions, medium-temperature applications (A+++ -> D)		A++
Energy efficiency class, space heating under average climate conditions, low-temperature applications (A+++ -> D)		A+++
Energy efficiency class, DHW heating under average climate conditions (A+++ -> D)		A
Rated heating output under average climate conditions for medium-temperature applications (P rated)	kW	9
Rated heating output under average climate conditions for low-temperature applications (P rated)	kW	10
Annual energy consumption under average climate conditions for medium-temperature applications (QHE)	kWh/a	5358
Annual energy consumption under average climate conditions for low-temperature applications (QHE)	kWh/a	4091
Annual power consumption under average climate conditions (AEC)		-
Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications ( $\eta_s$ )	%	136
Seasonal space heating energy efficiency under average climate conditions for low-temperature applications ( $\eta_s$ )	%	200
Energy efficiency, DHW heating ( $\eta_{wh}$ ), under average climate conditions	%	110
Sound power level, indoor	dB(A)	49
Option for operation only at off-peak times		-
Rated heating output under colder climate conditions for medium-temperature applications (P rated)	kW	12
Rated heating output under colder climate conditions for low-temperature applications (P rated)	kW	13
Rated heating output under warmer climate conditions for medium-temperature applications (P rated)	kW	9
Rated heating output under warmer climate conditions for low-temperature applications (P rated)	kW	10
Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)	kWh/a	7799
Annual energy consumption under colder climate conditions for low-temperature applications (QHE)	kWh/a	5895
Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)	kWh/a	3488
Annual energy consumption under warmer climate conditions for low-temperature applications (QHE)	kWh/a	2660
Annual power consumption under colder climate conditions (AEC)		-
Annual power consumption under warmer climate conditions (AEC)		-
Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications ( $\eta_s$ )	%	141
Seasonal space heating energy efficiency under colder climate conditions for low-temperature applications ( $\eta_s$ )	%	206
Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications ( $\eta_s$ )	%	135
Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications ( $\eta_s$ )	%	199
Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications ( $\eta_s$ )		-
Energy efficiency, DHW heating ( $\eta_{wh}$ ), warmer climates		-
Sound power level, outdoor		-



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Manufacturer		STIEBEL ELTRON
Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications ( $\eta_s$ )	%	136
Temperature control class		VII
Contribution of temperature control to space heating energy efficiency	%	3.5
Space heating energy efficiency of package under average climate conditions	%	140
Space heating energy efficiency of package under colder climate conditions	%	145
Space heating energy efficiency of package under warmer climate conditions	%	139
Value of differential between space heating energy efficiency under average climate conditions and that under colder climate conditions	%	5
Value of differential between space heating energy efficiency under warmer climate conditions and that under average climate conditions	%	1
Space heating energy efficiency class under average climate conditions, medium-temperature applications (A+++ -> D)		A++
Space heating energy efficiency class of package under average climate conditions (A+++ -> D)		A++
Energy efficiency class, DHW heating under average climate conditions (A+++ -> D)		A
Load profile		XL

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		<b>WPC 10 S</b>
		232939
Manufacturer		STIEBEL ELTRON
Heat source		-
Low temperature heat pump		-
With auxiliary heater		-
Combination heater with heat pump		-
Rated heating output under colder climate conditions for medium-temperature applications (P rated)	kW	12
Rated heating output under average climate conditions for medium-temperature applications (P rated)	kW	9
Rated heating output under warmer climate conditions for medium-temperature applications (P rated)	kW	9
T <sub>j</sub> = -7 °C heating output, partial load range under colder climate conditions (Pdh)	kW	9.8
T <sub>j</sub> = -7 °C heating output, partial load range under average climate conditions (Pdh)	kW	9.5
T <sub>j</sub> = 2 °C heating output, partial load range under colder climate conditions (Pdh)	kW	10
T <sub>j</sub> = 2 °C heating output, partial load range under average climate conditions (Pdh)	kW	9.8
T <sub>j</sub> = 2 °C heating output, partial load range under warmer climate conditions (Pdh)	kW	9.4
T <sub>j</sub> = 7 °C heating output, partial load range under colder climate conditions (Pdh)	kW	10.2
T <sub>j</sub> = 7 °C heating output, partial load range under average climate conditions (Pdh)	kW	10
T <sub>j</sub> = 7 °C heating output, partial load range under warmer climate conditions (Pdh)	kW	9.6
T <sub>j</sub> = 12 °C heating output, partial load range under colder climate conditions (Pdh)	kW	10.3
T <sub>j</sub> = 12 °C heating output, partial load range under average climate conditions (Pdh)	kW	10.2
T <sub>j</sub> = 12 °C heating output, partial load range under warmer climate conditions (Pdh)	kW	10.1
T <sub>j</sub> = dual mode temperature under colder climate conditions (Pdh)	kW	9.6
T <sub>j</sub> = dual mode temperature under average climate conditions (Pdh)	kW	9.4
T <sub>j</sub> = dual mode temperature under warmer climate conditions (Pdh)	kW	9.4
T <sub>j</sub> = operating temperature limit under colder climate conditions (Pdh)	kW	9.6
T <sub>j</sub> = operating temperature limit under average climate conditions (Pdh)	kW	9.4
T <sub>j</sub> = operating temperature limit under warmer climate conditions (Pdh)	kW	9.4
For air source heat pumps: T <sub>j</sub> = -15 °C (if TOL < -20 °C) (Pdh)	kW	9.4
Dual mode temperature under colder climate conditions (T <sub>biv</sub> )	Grad C	-15
Dual mode temperature under average climate conditions (T <sub>biv</sub> )	Grad C	-10
Dual mode temperature under warmer climate conditions (T <sub>biv</sub> )	Grad C	2
Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications (η <sub>s</sub> )	%	141
Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (η <sub>s</sub> )	%	136
Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications (η <sub>s</sub> )	%	135
T <sub>j</sub> = -7 °C COP, partial load range under colder climate conditions (COPd)		3.5
T <sub>j</sub> = -7 °C COP, partial load range under average climate conditions (COPd)		3
T <sub>j</sub> = 2 °C COP, partial load range under colder climate conditions (COPd)		4
T <sub>j</sub> = 2 °C COP, partial load range under average climate conditions (COPd)		3.5
T <sub>j</sub> = 2 °C COP, partial load range under warmer climate conditions (COPd)		2.9
T <sub>j</sub> = 7 °C COP, partial load range under colder climate conditions (COPd)		4.3
T <sub>j</sub> = 7 °C COP, partial load range under average climate conditions (COPd)		4

Tj = 7 °C COP, partial load range under warmer climate conditions (COPd)		3.3
Tj = 12 °C COP, partial load range under colder climate conditions (COPd)		4.7
Tj = 12 °C COP, partial load range under average climate conditions (COPd)		4.4
Tj = 12 °C COP, partial load range under warmer climate conditions (COPd)		4.1
Tj = dual mode temperature under colder climate conditions (COPd)		3.3
Tj = dual mode temperature under average climate conditions (COPd)		2.9
Tj = dual mode temperature under warmer climate conditions (COPd)		2.9
Tj = operating temperature limit under colder climate conditions (COPd)		2.9
Tj = operating temperature limit under average climate conditions (COPd)		2.9
Tj = operating temperature limit under warmer climate conditions (COPd)		2.9
For air source heat pumps: Tj = -15 °C (if TOL < -20 °C) (COPd)		2.9
Operating temperature limit under colder climate conditions (TOL)		-
Operating temperature limit under average climate conditions (TOL)		-
Operating temperature limit under warmer climate conditions (TOL)		-
Operating temperature limit of heating water under colder climate conditions (WTOL)		-
Operating temperature limit of heating water under average climate conditions (WTOL)	Grad C	60
Operating temperature limit of heating water under warmer climate conditions (WTOL)		-
Power consumption, off-mode (Poff)	Watt	0
Power consumption, thermostat off-mode (PTO)	Watt	85
Power consumption, standby state (PSB)	Watt	10
Power consumption, operating state, with crankcase heating (PCK)	Watt	0
Rated heating output of auxiliary heater under colder climate conditions (PSUP)		-
Rated heating output of auxiliary heater under average climate conditions (PSUP)	kW	0
Rated heating output of auxiliary heater under warmer climate conditions (PSUP)		-
Type of energy supply, auxiliary heater		elektrisch
Output control		fest
Sound power level, outdoor		-
Sound power level, indoor	dB(A)	49
Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)	kWh/a	7799
Annual energy consumption under average climate conditions for medium-temperature applications (QHE)	kWh/a	5358
Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)	kWh/a	3488
Flow rate on heat source side	m <sup>3</sup> /h	2.5
Load profile		XL
Daily power consumption under colder climate conditions (QELEC)	kWh	7
Daily power consumption under average climate conditions (QELEC)	kWh	7
Daily power consumption under warmer climate conditions (QELEC)	kWh	7
Annual power consumption under colder climate conditions (AEC)		-
Annual power consumption under average climate conditions (AEC)		-
Annual power consumption under warmer climate conditions (AEC)		-
Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications (η <sub>s</sub> )		-
Energy efficiency, DHW heating (η <sub>wh</sub> ), under average climate conditions	%	110
Energy efficiency, DHW heating (η <sub>wh</sub> ), warmer climates		-