



# ENERG

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## STIEBEL ELTRON

HPA-O 8 CS Plus CN  
compact D Set S



**A++**



-dB

**57dB**



- 11 kW
- **8 kW**
- 6 kW

2019

811/2013

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

		<b>HPA-O 8 CS Plus CN compact D Set S</b>
		239602
Manufacturer		STIEBEL ELTRON
Load profile		-
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)		-
Rated heating output under average climate conditions for medium-temperature applications (P rated)	kW	8
Rated heating output under average climate conditions for low-temperature applications (P rated)	kW	9
Annual energy consumption under average climate conditions for medium-temperature applications (QHE)	kWh/a	4865
Annual energy consumption under average climate conditions for low-temperature applications (QHE)	kWh/a	4218
Annual power consumption under average climate conditions (AEC)		-
Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications ( $\eta_s$ )	%	125
Seasonal space heating energy efficiency under average climate conditions for low-temperature applications ( $\eta_s$ )	%	177
Energy efficiency, DHW heating ( $\eta_{wh}$ ), under average climate conditions		-
Sound power level, indoor		-
Option for operation only at off-peak times		-
Rated heating output under colder climate conditions for medium-temperature applications (P rated)	kW	11
Rated heating output under colder climate conditions for low-temperature applications (P rated)	kW	9
Rated heating output under warmer climate conditions for medium-temperature applications (P rated)	kW	6
Rated heating output under warmer climate conditions for low-temperature applications (P rated)	kW	8
Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)	kWh/a	10193
Annual energy consumption under colder climate conditions for low-temperature applications (QHE)	kWh/a	5722
Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)	kWh/a	2048
Annual energy consumption under warmer climate conditions for low-temperature applications (QHE)	kWh/a	1867
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 ( $\eta_s$ )	%	103
Seasonal space heating energy efficiency under colder climate conditions for low-temperature applications ( $\eta_s$ )	%	147
Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications ( $\eta_s$ )	%	153
Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications ( $\eta_s$ )	%	215
Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications ( $\eta_s$ )	%	215
Energy efficiency, DHW heating ( $\eta_{wh}$ ), warmer climates		-
Sound power level, outdoor	dB(A)	57



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Manufacturer		STIEBEL ELTRON
Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications ( $\eta_s$ )	%	125
Temperature control class		VI
Contribution of temperature control to space heating energy efficiency	%	4
Space heating energy efficiency of package under average climate conditions	%	129.3
Space heating energy efficiency of package under colder climate conditions	%	106.9
Space heating energy efficiency of package under warmer climate conditions	%	162.6
Value of differential between space heating energy efficiency under average climate conditions and that under colder climate conditions	%	22.4
Value of differential between space heating energy efficiency under warmer climate conditions and that under average climate conditions	%	33.3
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)		-
Load profile		-

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		<b>HPA-O 8 CS Plus CN compact D Set S</b>	
		239602	
Manufacturer		STIEBEL ELTRON	
Heat source		Luft	
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	11	
Rated heating output under average climate conditions for medium-temperature applications (P rated)	kW	8	
Rated heating output under warmer climate conditions for medium-temperature applications (P rated)	kW	6	
Tj = -7 °C heating output, partial load range under colder climate conditions (Pdh)	kW	6.6	
Tj = -7 °C heating output, partial load range under average climate conditions (Pdh)	kW	5.1	
Tj = 2 °C heating output, partial load range under colder climate conditions (Pdh)	kW	4	
Tj = 2 °C heating output, partial load range under average climate conditions (Pdh)	kW	4.1	
Tj = 2 °C heating output, partial load range under warmer climate conditions (Pdh)	kW	6	
Tj = 7 °C heating output, partial load range under colder climate conditions (Pdh)	kW	2.7	
Tj = 7 °C heating output, partial load range under average climate conditions (Pdh)	kW	2.6	
Tj = 7 °C heating output, partial load range under warmer climate conditions (Pdh)	kW	3.9	
Tj = 12 °C heating output, partial load range under colder climate conditions (Pdh)	kW	3.4	
Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)	kW	3.3	
Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)	kW	3.3	
Tj = dual mode temperature under colder climate conditions (Pdh)	kW	6.6	
Tj = dual mode temperature under average climate conditions (Pdh)	kW	6.1	
Tj = dual mode temperature under warmer climate conditions (Pdh)	kW	6	
Tj = operating temperature limit under colder climate conditions (Pdh)	kW	1.8	
Tj = operating temperature limit under average climate conditions (Pdh)	kW	5.1	
Tj = operating temperature limit under warmer climate conditions (Pdh)	kW	6	
For air source heat pumps: Tj = -15 °C (if TOL < -20 °C) (Pdh)	kW	0	
Dual mode temperature under colder climate conditions (Tbiv)	Grad C	-7	
Dual mode temperature under average climate conditions (Tbiv)	Grad C	-5	
Dual mode temperature under warmer climate conditions (Tbiv)	Grad C	2	
Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications (ηs)	%	103	
Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (ηs)	%	125	
Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications (ηs)	%	153	
Tj = -7 °C COP, partial load range under colder climate conditions (COPd)		2.4	
Tj = -7 °C COP, partial load range under average climate conditions (COPd)		2	
Tj = 2 °C COP, partial load range under colder climate conditions (COPd)		3.6	
Tj = 2 °C COP, partial load range under average climate conditions (COPd)		3.3	
Tj = 2 °C COP, partial load range under warmer climate conditions (COPd)		2.2	
Tj = 7 °C COP, partial load range under colder climate conditions (COPd)		5	
Tj = 7 °C COP, partial load range under average climate conditions (COPd)		4.6	

Tj = 7 °C COP, partial load range under warmer climate conditions (COPd)		3.2
Tj = 12 °C COP, partial load range under colder climate conditions (COPd)		6.2
Tj = 12 °C COP, partial load range under average climate conditions (COPd)		6
Tj = 12 °C COP, partial load range under warmer climate conditions (COPd)		5.7
Tj = dual mode temperature under colder climate conditions (COPd)		2.4
Tj = dual mode temperature under average climate conditions (COPd)		2.3
Tj = dual mode temperature under warmer climate conditions (COPd)		2.2
Tj = operating temperature limit under colder climate conditions (COPd)		1.4
Tj = operating temperature limit under average climate conditions (COPd)		2
Tj = operating temperature limit under warmer climate conditions (COPd)		2.2
For air source heat pumps: Tj = -15 °C (if TOL < -20 °C) (COPd)		0
Operating temperature limit under colder climate conditions (TOL)	Grad C	-15
Operating temperature limit under average climate conditions (TOL)	Grad C	-5
Operating temperature limit under warmer climate conditions (TOL)	Grad C	2
Operating temperature limit of heating water under colder climate conditions (WTOL)	Grad C	60
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)	Grad C	60
Power consumption, off-mode (Poff)	Watt	17
Power consumption, thermostat off-mode (PTO)	Watt	30
Power consumption, standby state (PSB)	Watt	17
Power consumption, operating state, with crankcase heating (PCK)	Watt	5
Rated heating output of auxiliary heater under colder climate conditions (PSUP)	kW	11
Rated heating output of auxiliary heater under average climate conditions (PSUP)	kW	8
Rated heating output of auxiliary heater under warmer climate conditions (PSUP)	kW	0
Type of energy supply, auxiliary heater		elektrisch
Output control		veränderlich
Sound power level, outdoor	dB(A)	57
Sound power level, indoor		-
Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)	kWh/a	10193
Annual energy consumption under average climate conditions for medium-temperature applications (QHE)	kWh/a	4865
Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)	kWh/a	2048
Flow rate on heat source side	m <sup>3</sup> /h	2200
Load profile		-
Daily power consumption under colder climate conditions (QELEC)		-
Daily power consumption under average climate conditions (QELEC)		-
Daily power consumption under warmer climate conditions (QELEC)		-
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> )	%	215
Energy efficiency, DHW heating (η <sub>wh</sub> ), under average climate conditions		-
Energy efficiency, DHW heating (η <sub>wh</sub> ), warmer climates		-