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STIEBEL ELTRON

HPA-O 6 CS Plus
compact Set 1.1

L

A+++
A++
A+
A
B
C
D

A++

A+
A
B
C
D
E
F

57 dB

6 kW
7 kW
6 kW

2019

811/2013

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

		HPA-O 6 CS Plus compact Set 1.1
		204269
Manufacturer		STIEBEL ELTRON
Load profile		L
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+++
Rated heating output in moderate climates for average temperature applications (Prated)	kW	8
Rated heating output in moderate climates for low temperature applications (Prated)	kW	7
Annual energy consumption in moderate climates for average temperature applications (QHE)	kWh/a	4865
Annual energy consumption in moderate climates for low temperature applications (QHE)	kWh/a	3120
Annual power consumption in moderate climates (AEC)	kWh/a	1007
Seasonal room heating efficiency in moderate climates for average temperature applications (Ƞs)	%	125
Seasonal room heating efficiency in moderate climates for low temperature applications (Ƞs)	%	177
Energy efficiency for DHW heating (Ƞwh) under moderate climatic conditions	%	101,7
Sound power level external	dB(A)	57
Rated heating output in colder climates for average temperature applications (Prated)	kW	11
Rated heating output in colder climates for low temperature applications (Prated)	kW	6
Rated heating output in warmer climates for average temperature applications (Prated)	kW	6
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	10193
Annual energy consumption in colder climates for low temperature applications (QHE)	kWh/a	3713
Annual energy consumption in warmer climates for average temperature applications (QHE)	kWh/a	2048
Annual energy consumption in warmer climates for low temperature applications (QHE)	kWh/a	1556
Seasonal room heating efficiency in colder climates for average temperature applications (Ƞs)	%	103
Seasonal room heating efficiency in colder climates for low temperature applications (Ƞs)	%	151
Seasonal room heating efficiency in warmer climates for average temperature applications (Ƞs)	%	153
Seasonal room heating efficiency in warmer climates for low temperature applications (Ƞs)	%	213
Operation exclusively enabled during low load times		-

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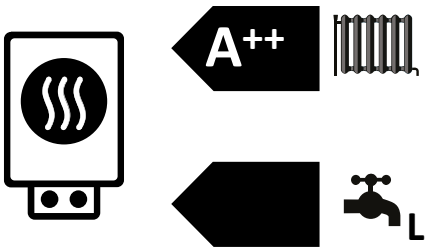
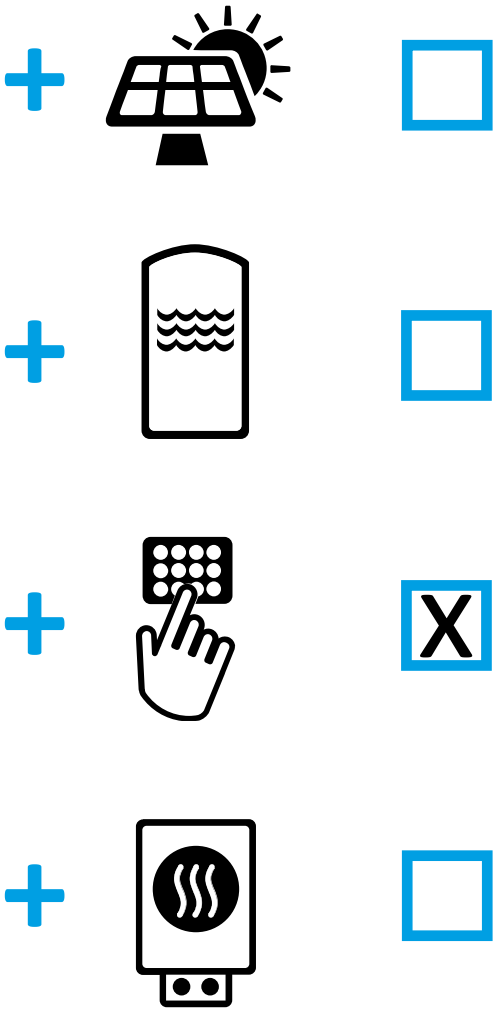
STIEBEL ELTRON

HPA-O 6 CS Plus compact Set 1.1





2015

811/2013

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

		HPA-O 6 CS Plus compact Set 1.1
		204269
Manufacturer		STIEBEL ELTRON
Seasonal room heating efficiency in moderate climates for average temperature applications (Ƒs)	%	125
Temperature controller class		VI
Contribution of temperature controller to room heating energy efficiency	%	4
Room heating energy efficiency of composite system under moderate climatic conditions	%	129
Room heating energy efficiency of composite system under colder climatic conditions	%	107
Room heating energy efficiency of composite system under warmer climatic conditions	%	156
Value of differential between room heating energy efficiency under moderate climatic conditions and that under colder climatic conditions	%	22
Value of differential between room heating energy efficiency under warmer climatic conditions and that under moderate climatic conditions	%	27
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++
Load profile		L

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

		HPA-O 6 CS Plus compact Set 1.1
		204269
Manufacturer		STIEBEL ELTRON
Heat source		Outside air
Combi boiler with heat pump		x
Rated heating output in colder climates for average temperature applications (Prated)	kW	11
Rated heating output in moderate climates for average temperature applications (Prated)	kW	8
Rated heating output in warmer climates for average temperature applications (Prated)	kW	6
Tj = -7 °C heating output, partial load range in colder climates (Pdh)	kW	6.6
Tj = -7 °C heating output, partial load range under moderate climatic conditions (Pdh)	kW	5.1
Tj = 2 °C heating output, partial load range in colder climates (Pdh)	kW	4.0
Tj = 2 °C heating output, partial load range under moderate climatic conditions (Pdh)	kW	4.1
Tj = 2 °C heating output, partial load range in warmer climates (Pdh)	kW	6.0
Tj = 7 °C heating output, partial load range in colder climates (Pdh)	kW	2.7
Tj = 7 °C heating output, partial load range under moderate climatic conditions (Pdh)	kW	2.6
Tj = 7 °C heating output, partial load range in warmer climates (Pdh)	kW	3.9
Tj = 12 °C heating output, partial load range in colder climates (Pdh)	kW	3.4
Tj = 12 °C heating output, partial load range under moderate climatic conditions (Pdh)	kW	3.3
Tj = 12 °C heating output, partial load range in warmer climates (Pdh)	kW	3.3
Tj = dual mode temperature in colder climates (Pdh)	kW	6.6
Tj = dual mode temperature under moderate climatic conditions (Pdh)	kW	6.1
Tj = dual mode temperature in warmer climates (Pdh)	kW	6.0
Tj = operating temperature limit in colder climates (Pdh)	kW	1.8
Tj = operating temperature limit under moderate climatic conditions (Pdh)	kW	5.1
Tj = operating temperature limit in warmer climates (Pdh)	kW	6.0
For air/water heat pumps:Tj = -15 °C (if TOL< -20 °C) (Pdh)	kW	0.0
Dual mode temperature in colder climates (Tbiv)	°C	-7
Dual mode temperature in moderate climates (Tbiv)	°C	-5
Dual mode temperature in warmer climates (Tbiv)	°C	2
Seasonal room heating efficiency in colder climates for average temperature applications (Ƞs)	%	103
Seasonal room heating efficiency in moderate climates for average temperature applications (Ƞs)	%	125
Seasonal room heating efficiency in warmer climates for average temperature applications (Ƞs)	%	153
Tj = -7 °C COP, partial load range in colder climates (COPd)		2.40
Tj = -7 °C COP, partial load range under moderate climatic conditions (COPd)		2.00
Tj = 2 °C COP, partial load range in colder climates (COPd)		3.60
Tj = 2 °C COP, partial load range under moderate climatic conditions (COPd)		3.30
Tj = 2 °C COP, partial load range in warmer climates (COPd)		2.20
Tj = 7 °C COP, partial load range in colder climates (COPd)		5.00
Tj = 7 °C COP, partial load range under moderate climatic conditions (COPd)		4.60
Tj = 7 °C COP, partial load range in warmer climates (COPd)		3.20
Tj = 12 °C COP, partial load range in colder climates (COPd)		6.20
Tj = 12 °C COP, partial load range under moderate climatic conditions (COPd)		6,0
Tj = 12 °C COP, partial load range in warmer climates (COPd)		5.70
Tj = dual mode temperature in colder climates (COPd)		2.40
Tj = dual mode temperature under moderate climatic conditions (COPd)		2.30
Tj = dual mode temperature in warmer climates (COPd)		2.20
Tj = operating temperature limit in colder climates (COPd)		1.40

Tj = operating temperature limit under moderate climatic conditions (COPd)		2.00
Tj = operating temperature limit in warmer climates (COPd)		2.20
For air/water heat pumps:Tj= -15°C (if TOL< -20 °C) (COPd)		0.00
Operating temperature limit in colder climates (TOL)	°C	-15
Operating temperature limit in moderate climates (TOL)	°C	-5
Operating temperature limit in warmer climates (TOL)	°C	2
Heating water operating temperature limit in colder climates (WTOL)	°C	60
Heating water operating temperature limit (WTOL)	°C	60
Heating water operating temperature limit in warmer climates (WTOL)	°C	60
Power consumption, OFF state (Poff)	W	17
Power consumption, thermostat OFF state (PTO)	W	30
Standby power consumption (PSB)	W	17
Power consumption, operating state, with crankcase heating (PCK)	W	5
Booster heater heating output in colder climates (Psup)	kW	11.0
Booster heater heating output in moderate climate (Psup)	kW	7.6
Booster heater heating output in warmer climates (Psup)	kW	0.0
Type of energy supply, booster heater		electric
Power control		variable
Sound power level external	dB(A)	57
Annual energy consumption in colder climates for average temperature applications (QHE)	kWh/a	10193
Annual energy consumption in moderate climates for average temperature applications (QHE)	kWh/a	4865
Annual energy consumption in warmer climates for average temperature applications (QHE)	kWh/a	2048
Flow rate, heat source side	m^3/h	2200
Load profile		L
Daily power consumption (Qelec)	kWh	4.791
Annual power consumption in moderate climates (AEC)	kWh/a	1007
Energy efficiency for DHW heating (Ƞwh) under moderate climatic conditions	%	101,7