ENERGY

STIEBEL ELTRON HPA-O 8 CS Plus int

	55 °C	35 °C
	A++	A+++

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

	55 °C	35 °C
	11	9
	9	**10**
	6	8
	kW	kW

57 dB

2019 **811/2013**

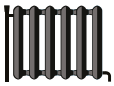
Product datasheet: Room heater to regulation (EU) no. 811/2013 / (S.I. 2019 No. 539 / Schedule 2)

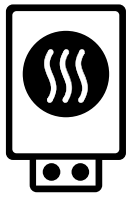
		HPA-O 8 CS Plus int
		239171
Manufacturer		STIEBEL ELTRON
Energy efficiency class for central heating in moderate climates for medium temperature applications		A++
Energy efficiency class for central heating in moderate climates for low temperature applications		A+++
Rated heating output in moderate climates for average temperature applications (Prated)	kW	9
Rated heating output in moderate climates for low temperature applications (Prated)	kW	10
Seasonal room heating efficiency in moderate climates for average temperature applications (Ƞs)	%	128
Seasonal room heating efficiency in moderate climates for low temperature applications (Ƞs)	%	181
Annual energy consumption in moderate climates for average temperature applications (QHE)	kWh/a	5659
Annual energy consumption in moderate climates for low temperature applications (QHE)	kWh/a	4350
Sound power level external	dB(A)	57
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	11
Rated heating output in colder climates for low temperature applications (Prated)	kW	9
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	8
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)	%	147
Seasonal room heating efficiency in warmer climates for average temperature applications (Ƞs)	%	154
Seasonal room heating efficiency in warmer climates for low temperature applications (Ƞs)	%	217
Annual energy consumption in colder climates for average temperature applications (QHE)	kWh/a	10192
Annual energy consumption in colder climates for low temperature applications (QHE)	kWh/a	5718
Annual energy consumption in warmer climates for average temperature applications (QHE)	kWh/a	2032
Annual energy consumption in warmer climates for low temperature applications (QHE)	kWh/a	1842

ENERGY

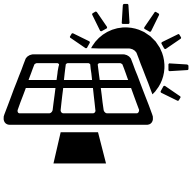
STIEBEL ELTRON

HPA-O 8 CS Plus int



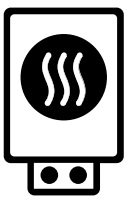


A++

+  ☐

+  ☐

+  ☒

+  ☐

A+++
A++
A+
A
B
C
D
E
F
G

A++

2015

811/2013

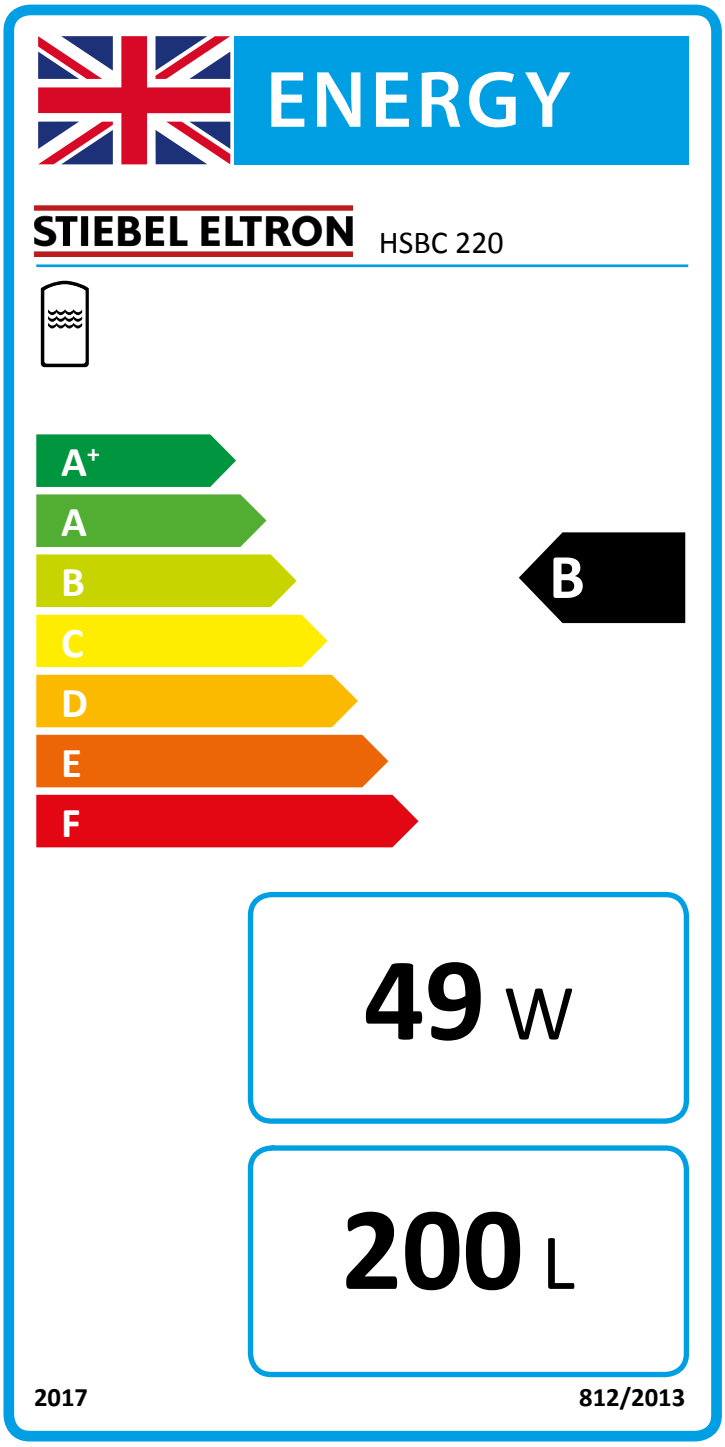
Product datasheet: Composite system consisting of room heater and temperature controller to regulation (EU) no. 811/2013 / (S.I. 2019 No. 539 / Schedule 2)

		HPA-O 8 CS Plus int
		239171
Manufacturer		STIEBEL ELTRON
Seasonal room heating efficiency in moderate climates for average temperature applications (Ƞs)	%	128
Temperature controller class		VI
Contribution of temperature controller to room heating energy efficiency	%	4.0
Room heating energy efficiency of composite system under moderate climatic conditions	%	132
Room heating energy efficiency of composite system under colder climatic conditions	%	107
Room heating energy efficiency of composite system under warmer climatic conditions	%	158
Value of differential between room heating energy efficiency under moderate climatic conditions and that under colder climatic conditions	%	25
Value of differential between room heating energy efficiency under warmer climatic conditions and that under moderate climatic conditions	%	25
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++

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

		HPA-O 8 CS Plus int
		239171
Manufacturer		STIEBEL ELTRON
Heat source		Outside air
With booster heater		-
Combi boiler with heat pump		-
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	9
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	5.2
Tj = -7 °C heating output, partial load range in warmer climates (Pdh)	kW	0.0
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	4.4
Tj = 2 °C heating output, partial load range in warmer climates (Pdh)	kW	5.9
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	2.9
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	7.2
Tj = dual mode temperature in warmer climates (Pdh)	kW	5.9
Tj = operating temperature limit in colder climates (Pdh)	kW	1.8
Tj = operating temperature limit under moderate climatic conditions (Pdh)	kW	5.2
Tj = operating temperature limit in warmer climates (Pdh)	kW	5.9
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)	%	128
Seasonal room heating efficiency in warmer climates for average temperature applications (Ƞs)	%	154
Tj = -7 °C COP, partial load range in colder climates (COPd)		2.41
Tj = -7 °C COP, partial load range under moderate climatic conditions (COPd)		2.49
Tj = -7 °C COP, partial load range in warmer climates (COPd)		0.00
Tj = 2 °C COP, partial load range in colder climates (COPd)		3.61
Tj = 2 °C COP, partial load range under moderate climatic conditions (COPd)		3.32
Tj = 2 °C COP, partial load range in warmer climates (COPd)		2.21
Tj = 7 °C COP, partial load range in colder climates (COPd)		4.95
Tj = 7 °C COP, partial load range under moderate climatic conditions (COPd)		4.29
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)		5,64
Tj = 12 °C COP, partial load range in warmer climates (COPd)		5.69
Tj = dual mode temperature in colder climates (COPd)		2.41

Tj = dual mode temperature under moderate climatic conditions (COPd)		2.57
Tj = dual mode temperature in warmer climates (COPd)		2.21
Tj = operating temperature limit in colder climates (COPd)		1.43
Tj = operating temperature limit under moderate climatic conditions (COPd)		2.49
Tj = operating temperature limit in warmer climates (COPd)		2.21
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	-10
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	60
Power consumption, thermostat OFF state (PTO)	W	15
Standby power consumption (PSB)	W	17
Power consumption, operating state, with crankcase heating (PCK)	W	0
Booster heater heating output in colder climates (Psup)	kW	10.9
Booster heater heating output in moderate climate (Psup)	kW	9.0
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	10192
Annual energy consumption in moderate climates for average temperature applications (QHE)	kWh/a	5659
Annual energy consumption in warmer climates for average temperature applications (QHE)	kWh/a	2032
Flow rate, heat source side	m^3/h	2200
Daily power consumption in colder climates (QELEC)	kWh	0.000
Daily power consumption (Qelec)	kWh	0.000
Daily power consumption in warmer climates (QELEC)	kWh	0.000
Special measures		For all special measures to be taken during assembly, installation or maintenance of the room heater, see the installation instructions


ENERGY
STIEBEL ELTRON
HSBC 220
A+
A
B
C
D
E
F
B
49 W
200 L
2017
812/2013

Product datasheet: Hot water storage tanks to regulation (EU) no. 812/2013 / (S.I. 2019 No. 539 / Schedule 2)

		HSBC 220
		206641
Manufacturer		STIEBEL ELTRON
Energy efficiency class		B
standing loss S	W	49
storage volume V	l	200