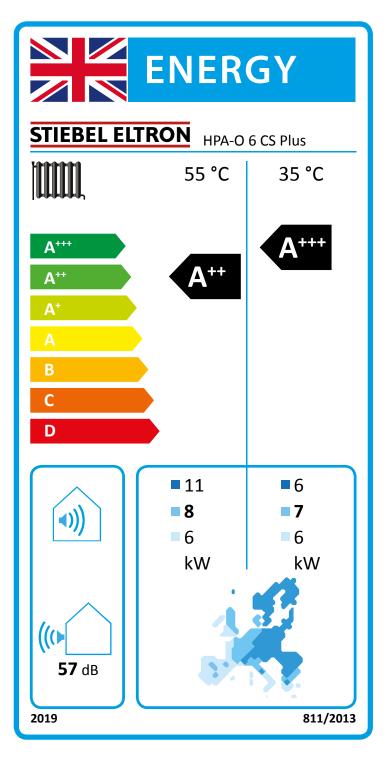


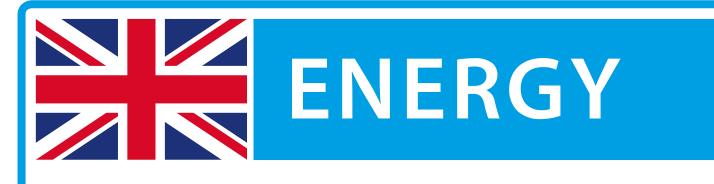
Product datasheet: Hot water storage tanks to regulation (EU) no. 812/2013 / (S.I. 2019 No. 539 / Schedule 2)

		HSBB 200 VM3
		205303
Manufacturer		STIEBEL ELTRON
Energy efficiency class		В
standing loss S	W	55
storage volume V	I	191



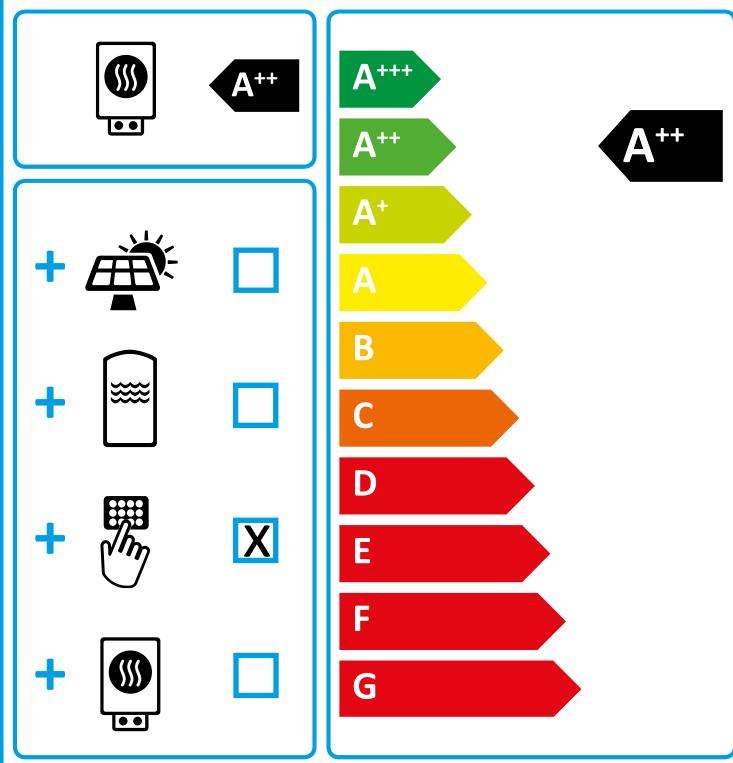
Product datasheet: Room heater to regulation (EU) no. 811/2013 / (S.I. 2019 No. 539 / Schedule 2)

		HPA-O 6 CS Plus
· · · · ·		238986
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	8
Rated heating output in moderate climates for low temperature applications (Prated)	kW	7
Seasonal room heating efficiency in moderate climates for average temperature applications (Π s)	%	125
Seasonal room heating efficiency in moderate climates for low temperature applications ($\ensuremath{\Pi}$ s)	%	177
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
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
Seasonal room heating efficiency in colder climates for average temperature applications ($\ensuremath{\Pi}$ s)	%	103
Seasonal room heating efficiency in colder climates for low temperature applications ($\ensuremath{\Pi} s)$	%	151
Seasonal room heating efficiency in warmer climates for average temperature applications ($\ensuremath{\Pi}$ s)	%	153
Seasonal room heating efficiency in warmer climates for low temperature applications ($\ensuremath{\Pi s}\xspace)$	%	213
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



STIEBEL ELTRON

HPA-O 6 CS Plus



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
		238986
Manufacturer		STIEBEL ELTRON
Seasonal room heating efficiency in moderate climates for average temperature applications ($\ensuremath{\Pi}$ s)	%	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++

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

		HPA-O 6 CS Plus
		238986
Manufacturer		STIEBEL ELTRON
Heat source		Outside air
With booster heater		<u> </u>
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	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)	<u>0°</u>	-7
Dual mode temperature in moderate climates (Tbiv)	<u> </u>	-5
Dual mode temperature in warmer climates (Tbiv)	°C	2
Seasonal room heating efficiency in colder climates for average temperature applications (Π s)	%	103
Seasonal room heating efficiency in moderate climates for average temperature applications (Π s)	%	125
Seasonal room heating efficiency in warmer climates for average temperature applications (Π s)	%	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
T_j = dual mode temperature under moderate climatic conditions (COPd)		2.30
Tj = dual mode temperature in warmer climates (COPd)		2.20
		2.20

Tj = operating temperature limit under moderate climatic conditions (COPd)2.00Tj = operating temperature limit in warmer climates (COPd)0.00Operating temperature limit in colder climates (TOL)°COperating temperature limit in colder climates (TOL)°COperating temperature limit in moderate climates (TOL)°COperating temperature limit in moderate climates (TOL)°COperating temperature limit in warmer climates (TOL)°COperating temperature limit in odder climates (WTOL)°COperating temperature limit in colder climates (WTOL)°CHeating water operating temperature limit in warmer climates (WTOL)°CHeating water operating temperature limit in warmer climates (WTOL)°CPower consumption, OFF state (Poff)WPower consumption, thermostat OFF state (PTO)WPower consumption, operating stemperature limates (PSup)KWBooster heater heating output in colder climates (PSup)KWBooster heater heating output in moderate climate (Psup)KWPower consumption in colder climates (Psup)KWAnnual energy consumption in colder climates for average temperature applications (OHE)10193Annual energy consumption in moderate climates for average temperature applications (OHE)10193Annual energy consumption in moderate climates for average temperature applications (OHE)2004Flow rate, heat source sidem²/h2200	Tj = operating temperature limit in colder climates (COPd)		1.40
For air/water heat pumps: Tj= -15°C (if TOL< -20 °C) (COPd)0.00Operating temperature limit in colder climates (TOL)°C-15Operating temperature limit in moderate climates (TOL)°C-5Operating temperature limit in warmer climates (TOL)°C2Heating water operating temperature limit in colder climates (WTOL)°C60Heating water operating temperature limit in colder climates (WTOL)°C60Heating water operating temperature limit in warmer climates (WTOL)°C60Power consumption, OFF state (Poff)W17Power consumption, thermostat OFF state (PTO)W30Standby power consumption (PSB)W17Power consumption, operating state, with crankcase heating (PCK)W5Booster heater heating output in colder climates (Psup)kW0.00Type of energy supply, booster heaterelectricelectricPower controlvariable57Annual energy consumption in colder climates for average temperature applications (QHE)48654865Annual energy consumption in warmer climates for average temperature applications (QHE)2048	, , , , , , , , , , , , , , , , , , , ,		2.00
Operating temperature limit in colder climates (TOL)°C-15Operating temperature limit in moderate climates (TOL)°C-5Operating temperature limit in warmer climates (TOL)°C2Heating water operating temperature limit in colder climates (WTOL)°C60Heating water operating temperature limit in outler climates (WTOL)°C60Heating water operating temperature limit in warmer climates (WTOL)°C60Heating water operating temperature limit in warmer climates (WTOL)°C60Power consumption, OFF state (Poff)W17Power consumption, thermostat OFF state (PTO)W30Standby power consumption (PSB)W11Power consumption, operating state, with crankcase heating (PCK)W5Booster heater heating output in colder climates (Psup)kW11.0Booster heater heating output in moderate climate (Psup)kW0.0Type of energy supply, booster heaterelectricPower controlvariableSound power level externaldB(A)57Annual energy consumption in colder climates for average temperature applications (QHE)kWh/a4865Annual energy consumption in warmer climates for average temperature applications (QHE)kWh/a2048	Tj = operating temperature limit in warmer climates (COPd)		2.20
Operating temperature limit in moderate climates (TOL)°COperating temperature limit in warmer climates (TOL)°COperating temperature limit in warmer climates (TOL)°CHeating water operating temperature limit in colder climates (WTOL)°CHeating water operating temperature limit in warmer climates (WTOL)°CHeating water operating temperature limit in warmer climates (WTOL)°CHeating water operating temperature limit in warmer climates (WTOL)°CPower consumption, OFF state (Poff)WPower consumption, operating state, with crankcase heating (PCK)WPower consumption, operating state, with crankcase heating (PCK)WPower consumption, operating state, with crankcase heating (PCK)WBooster heater heating output in moderate climate (Psup)kWBooster heater heating output in moderate climate (Psup)kWPower consumption in colder climates (Psup)kWPower consumption in moderate climates for average temperature applications (QHE)Annual energy consumption in warmer climates for average temperature applications (QHE)Annual energy consumption in warmer climates for average temperature applications (QHE)Annual energy consumption in warmer climates for average temperature applications (QHE)Annual energy consumption in warmer climates for average temperature applications (QHE)Annual energy consumption in warmer climates for aver	For air/water heat pumps:Tj= -15°C (if TOL< -20 °C) (COPd)		0.00
Operating temperature limit in warmer climates (TOL)°C2Heating water operating temperature limit in colder climates (WTOL)°C60Heating water operating temperature limit in colder climates (WTOL)°C60Heating water operating temperature limit in warmer climates (WTOL)°C60Heating water operating temperature limit in warmer climates (WTOL)°C60Power consumption, OFF state (Poff)W17Power consumption, thermostat OFF state (PTO)W30Standby power consumption (PSB)W17Power consumption, operating state, with crankcase heating (PCK)W5Booster heater heating output in colder climates (Psup)kW11.0Booster heater heating output in warmer climates (Psup)kW7.6Booster heater heating output in warmer climates (Psup)kW0.0Type of energy supply, booster heaterelectricPower controlvariableSound power level externaldB(A)57Annual energy consumption in moderate climates for average temperature applications (QHE)4865Annual energy consumption in warmer climates for average temperature applications (QHE)kWh/a2048	Operating temperature limit in colder climates (TOL)	O°	-15
Including under operating temperature limit in colder climates (WTOL)°C60Heating water operating temperature limit in colder climates (WTOL)°C60Heating water operating temperature limit in warmer climates (WTOL)°C60Power consumption, OFF state (Poff)W17Power consumption, thermostat OFF state (PTO)W30Standby power consumption (PSB)W17Power consumption, operating state, with crankcase heating (PCK)W5Booster heater heating output in colder climates (Psup)kW11.0Booster heater heating output in moderate climate (Psup)kW0.0Type of energy supply, booster heaterelectricPower controlvariableSound power level externaldB(A)57Annual energy consumption in colder climates for average temperature applications (QHE)kWh/a10193Annual energy consumption in warmer climates for average temperature applications (QHE)kWh/a2048	Operating temperature limit in moderate climates (TOL)	°C	-5
Heating water operating temperature limit (WTOL)°C60Heating water operating temperature limit in warmer climates (WTOL)°C60Power consumption, OFF state (Poff)W17Power consumption, thermostat OFF state (PTO)W30Standby power consumption, operating state, with crankcase heating (PCK)W17Power consumption, operating state, with crankcase heating (PCK)W17Power consumption, operating state, with crankcase heating (PCK)W11.0Booster heater heating output in colder climates (Psup)kW7.6Booster heater heating output in moderate climate (Psup)kW0.0Type of energy supply, booster heaterelectricPower controlvariableSound power level externaldB(A)57Annual energy consumption in colder climates for average temperature applications (QHE)kWh/a10193Annual energy consumption in warmer climates for average temperature applications (QHE)kWh/a2048	Operating temperature limit in warmer climates (TOL)	°C	2
Heating water operating temperature limit in warmer climates (WTOL)°C60Power consumption, OFF state (Poff)W17Power consumption, thermostat OFF state (PTO)W30Standby power consumption (PSB)W17Power consumption, operating state, with crankcase heating (PCK)W17Power consumption, operating state, with crankcase heating (PCK)W17Booster heater heating output in colder climates (Psup)kW11.0Booster heater heating output in moderate climate (Psup)kW7.6Booster heater heating output in warmer climates (Psup)kW0.0Type of energy supply, booster heaterelectricPower consumption in colder climates for average temperature applications (QHE)4865Annual energy consumption in warmer climates for average temperature applications (QHE)kWh/a2048	Heating water operating temperature limit in colder climates (WTOL)	O°	60
Power consumption, OFF state (Poff)W17Power consumption, thermostat OFF state (PTO)W30Standby power consumption (PSB)W17Power consumption, operating state, with crankcase heating (PCK)W5Booster heater heating output in colder climates (Psup)kW11.0Booster heater heating output in moderate climate (Psup)kW0.0Type of energy supply, booster heaterelectricPower consumption in colder climates for average temperature applications (QHE)dB(A)57Annual energy consumption in warmer climates for average temperature applications (QHE)kWh/a10193Annual energy consumption in warmer climates for average temperature applications (QHE)kWh/a2048	Heating water operating temperature limit (WTOL)	°C	60
Power consumption, thermostat OFF state (PTO)W30Standby power consumption (PSB)W17Power consumption, operating state, with crankcase heating (PCK)W5Booster heater heating output in colder climates (Psup)kW11.0Booster heater heating output in moderate climate (Psup)kW7.6Booster heater heating output in warmer climates (Psup)kW0.0Type of energy supply, booster heaterelectricPower controlvariableSound power level externaldB(A)57Annual energy consumption in colder climates for average temperature applications (QHE)kWh/a10193Annual energy consumption in warmer climates for average temperature applications (QHE)kWh/a2048	Heating water operating temperature limit in warmer climates (WTOL)	°C	60
Standby power consumption (PSB)W17Power consumption, operating state, with crankcase heating (PCK)W5Booster heater heating output in colder climates (Psup)kW11.0Booster heater heating output in moderate climate (Psup)kW7.6Booster heater heating output in warmer climates (Psup)kW0.0Type of energy supply, booster heaterelectricPower controlvariableSound power level externaldB(A)57Annual energy consumption in colder climates for average temperature applications (QHE)kWh/a10193Annual energy consumption in warmer climates for average temperature applications (QHE)kWh/a2048	Power consumption, OFF state (Poff)	W	17
Power consumption, operating state, with crankcase heating (PCK)W5Booster heater heating output in colder climates (Psup)kW11.0Booster heater heating output in moderate climate (Psup)kW7.6Booster heater heating output in warmer climates (Psup)kW0.0Type of energy supply, booster heaterelectricPower controlvariableSound power level externaldB(A)57Annual energy consumption in colder climates for average temperature applications (QHE)kWh/a10193Annual energy consumption in warmer climates for average temperature applications (QHE)kWh/a2048	Power consumption, thermostat OFF state (PTO)	W	30
Booster heater heating output in colder climates (Psup)kW11.0Booster heater heating output in moderate climate (Psup)kW7.6Booster heater heating output in warmer climates (Psup)kW0.0Type of energy supply, booster heater0.0Power controlelectricSound power level externaldB(A)57Annual energy consumption in colder climates for average temperature applications (QHE)10193Annual energy consumption in warmer climates for average temperature applications (QHE)kWh/a2048Annual energy consumption in warmer climates for average temperature applications (QHE)2048	Standby power consumption (PSB)	W	17
Booster heater heating output in moderate climate (Psup)kW7.6Booster heater heating output in warmer climates (Psup)kW0.0Type of energy supply, booster heaterelectricPower controlvariableSound power level externaldB(A)57Annual energy consumption in colder climates for average temperature applications (QHE)kWh/a10193Annual energy consumption in warmer climates for average temperature applications (QHE)kWh/a2048	Power consumption, operating state, with crankcase heating (PCK)	W	5
Booster heater heating output in warmer climates (Psup)kW0.0Type of energy supply, booster heaterelectricPower controlvariableSound power level externaldB(A)Annual energy consumption in colder climates for average temperature applications (QHE)kWh/aAnnual energy consumption in moderate climates for average temperature applications (QHE)kWh/aAnnual energy consumption in warmer climates for average temperature applications (QHE)kWh/aAnnual energy consumption in warmer climates for average temperature applications (QHE)kWh/aAnnual energy consumption in warmer climates for average temperature applications (QHE)kWh/aAnnual energy consumption in warmer climates for average temperature applications (QHE)kWh/a	Booster heater heating output in colder climates (Psup)	kW	11.0
Type of energy supply, booster heaterelectricPower controlvariableSound power level externaldB(A)Sound power level externaldB(A)Annual energy consumption in colder climates for average temperature applications (QHE)kWh/aAnnual energy consumption in moderate climates for average temperature applications (QHE)kWh/aAnnual energy consumption in warmer climates for average temperature applications (QHE)kWh/aAnnual energy consumption in warmer climates for average temperature applications (QHE)kWh/aAnnual energy consumption in warmer climates for average temperature applications (QHE)kWh/a	Booster heater heating output in moderate climate (Psup)	kW	7.6
Power controlvariableSound power level externaldB(A)57Annual energy consumption in colder climates for average temperature applications (QHE)kWh/a10193Annual energy consumption in moderate climates for average temperature applications (QHE)kWh/a4865Annual energy consumption in warmer climates for average temperature applications (QHE)kWh/a2048	Booster heater heating output in warmer climates (Psup)	kW	0.0
Sound power level externaldB(A)57Annual energy consumption in colder climates for average temperature applications (QHE)kWh/a10193Annual energy consumption in moderate climates for average temperature applications (QHE)kWh/a4865Annual energy consumption in warmer climates for average temperature applications (QHE)kWh/a2048	Type of energy supply, booster heater		electric
Annual energy consumption in colder climates for average temperature applications (QHE)kWh/a10193Annual energy consumption in moderate climates for average temperature applications (QHE)kWh/a4865Annual energy consumption in warmer climates for average temperature applications (QHE)kWh/a2048	Power control		variable
applications (QHE) RWN/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	Sound power level external	dB(A)	57
temperature applications (QHE) 4005 Annual energy consumption in warmer climates for average temperature applications (QHE) kWh/a 2048		kWh/a	10193
applications (QHE) kwh/a 2048		kWh/a	4865
Flow rate, heat source side m³/h 2200	55 1 5 1	kWh/a	2048
	Flow rate, heat source side	m³/h	2200