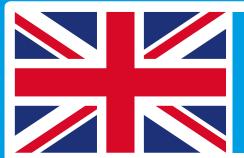


Product datasheet: Room heater to regulation (EU) no. 811/2013

		HPA-O 3 CS Plus flex Set
		239051
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	3
Rated heating output in moderate climates for low temperature applications (Prated)	kW	4
Seasonal room heating efficiency in moderate climates for average temperature applications ($\ensuremath{\mbox{\sc h}}$ s)	%	113
Seasonal room heating efficiency in moderate climates for low temperature applications ($\ensuremath{\Pi} s$)	%	166
Annual energy consumption in moderate climates for average temperature applications (QHE)	kWh/a	2089
Annual energy consumption in moderate climates for low temperature applications (QHE)	kWh/a	1769
Sound power level external	dB(A)	52
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	4
Rated heating output in colder climates for low temperature applications (Prated)	kW	3
Rated heating output in warmer climates for average temperature applications (Prated)	kW	3
Rated heating output in warmer climates for low temperature applications (Prated)	kW	3
Seasonal room heating efficiency in colder climates for average temperature applications ($\ensuremath{\mbox{\sc h}}$ s)	%	105
Seasonal room heating efficiency in colder climates for low temperature applications $(\boldsymbol{\eta} s)$	%	150
Seasonal room heating efficiency in warmer climates for average temperature applications ($\ensuremath{\mbox{\sc h}}$ s)	%	139
Seasonal room heating efficiency in warmer climates for low temperature applications ($\ensuremath{\eta s}$)	%	204
Annual energy consumption in colder climates for average temperature applications (QHE)	kWh/a	4016
Annual energy consumption in colder climates for low temperature applications (QHE)	kWh/a	2186
Annual energy consumption in warmer climates for average temperature applications (QHE)	kWh/a	1187
Annual energy consumption in warmer climates for low temperature applications (QHE)	kWh/a	783



ENERGY

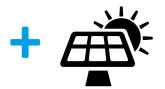
STIEBEL ELTRON

HPA-O 3 CS Plus flex Set





































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2015

811/2013

Product datasheet: Composite system consisting of room heater and temperature controller to regulation (EU) no. 811/2013

		HPA-O 3 CS Plus flex Set
		239051
Manufacturer		STIEBEL ELTRON
Seasonal room heating efficiency in moderate climates for average temperature applications (\ensuremath{Ns})	%	113
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	%	117
Room heating energy efficiency of composite system under colder climatic conditions	%	109
Room heating energy efficiency of composite system under warmer climatic conditions	%	143
Value of differential between room heating energy efficiency under moderate climatic conditions and that under colder climatic conditions	%	8
Value of differential between room heating energy efficiency under warmer climatic conditions and that under moderate climatic conditions	%	26
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

Manufacturer			HPA-O 3 CS Plus flex Set
Heat source Own temperature heat pump Signature heat pump Signature heat pump Award heating output in colder climates for average temperature applications (Prated) Award heating output in moderate climates for average temperature applications (Prated) Award heating output in moderate climates for average temperature applications (Prated) Award heating output in moderate climates for average temperature applications (Prated) 1 = 7 * C heating output in warmer climates for average temperature applications (Prated) 1 = 7 * C heating output, partial load range under moderate climatic conditions (Poh) 1 = 7 * C heating output, partial load range under moderate climatic conditions (Poh) 1 = 7 * C heating output, partial load range under moderate climatic conditions (Poh) 1 = 12 * C heating output, partial load range under moderate climatic conditions (Poh) 1 = 12 * C heating output, partial load range under moderate climatic conditions (Poh) 1 = 12 * C heating output, partial load range under moderate climatic conditions (Poh) 1 = 12 * C heating output, partial load range under moderate climatic conditions (Poh) 1 = 12 * C heating output, partial load range under moderate climatic conditions (Poh) 1 = 12 * C heating output, partial load range under moderate climatic conditions (Poh) 2 = 1 = 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1			
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conditions (Pehr) Ti = 12 °C beating output, partial load range under moderate climatic conditions (Pehr) Ti = dual mode temperature under moderate climatic conditions (Pehr) Ti = dual mode temperature under moderate climatic conditions (Pehr) Li = operating temperature limit under moderate climatic conditions (Pehr) Dual mode temperature in moderate climates (Tbiv) Possessonal room heating efficiency in colder climates for average temperature applications (Tis) Seasonal room heating efficiency in worderate climates for average temperature applications (Tis) Seasonal room heating efficiency in worderate climates for average temperature applications (Tis) Seasonal room heating efficiency in worderate climates for average temperature applications (Tis) Seasonal room heating efficiency in worderate climatic conditions (COPd) Ti = 7 ° C COP, partial load range under moderate climatic conditions (COPd) Ti = 2 ° C COP, partial load range under moderate climatic conditions (COPd) Ti = 2 ° C COP, partial load range under moderate climatic conditions (COPd) Ti = 2 ° C COP, partial load range under moderate climatic conditions (COPd) Ti = 1 ° C COP, partial load range under moderate climatic conditions (COPd) Ti = 2 ° C COP, partial load range under moderate climatic conditions (COPd) Ti = 2 ° C COP, partial load range under moderate climatic conditions (COPd) Ti = 3 ° C COP, partial load range under moderate climatic conditions (COPd) Ti = 4 ° C COP, partial load range under moderate climatic conditions (COPd) Ti = 4 ° C COP, partial load range under moderate climatic conditions (COPd) Ti = 4 ° C COP, partial load range under moderate climatic conditions (COPd) Ti = 4 ° C COP, partial load range under moderate climatic conditions (COPd) Ti = 4 ° C COP, partial load range under moderate climatic conditions (COPd) Ti = 4 ° C COP, partial load range under moderate climatic conditions (COPd) Ti = 4 ° C COP, partial load range under moderate climatic conditions (COPd) Ti = 4 ° C C		kW	1.6
Ij - 12 °C heating output, partial load range under moderate climatic conditions (Pdh) kW 1.5 Ij - dual mode temperature under moderate climatic conditions (Pdh) kW 2.4 Ij - operating temperature limit under moderate climatic conditions (Pdh) kW 3.1 For air/water heat pumps:Tj - 15° °C (if TOL < 20° °C) (Pdh)		kW	1.3
Tigle dual mode temperature under moderate climatic conditions (Pdh) kW 3.1 1 2 2 3 3 3 3 3 3 3 3		kW	1.5
Tj = operating temperature limit under moderate climatic conditions (Pdh) kW 3.1 For air/water heat pumps:Tj = 15 °C (if TOLx - 20 °C) (Pdh) kW 0 Dual mode temperature in moderate climates (Tbiv) °C -5 Seasonal room heating efficiency in colder climates for average temperature applications (Tls) % 105 Seasonal room heating efficiency in moderate climates for average temperature applications (Tls) % 113 Seasonal room heating efficiency in warmer climates for average temperature applications (Tls) % 139 Seasonal room heating efficiency in warmer climates for average temperature applications (Tls) 2.07 2.07 COPd) 2.07 2.07 2.07 2.07 COPd) 2.07 <t< td=""><td></td><td>kW</td><td>2.4</td></t<>		kW	2.4
For air/water heat pumps:Tj = -15 °C (if TOL< -20 °C) (Pdh)		kW	3.1
Dual mode temperature in moderate climates (Tbiv) °C .5		kW	
Seasonal room heating efficiency in colder climates for average temperature applications (n)		°C	-5
Seasonal room heating efficiency in moderate climates for average temperature applications (R)s 113 Seasonal room heating efficiency in warmer climates for average temperature applications (R)s 139 T] = 7° C COP, partial load range under moderate climatic conditions (COPd) 2.07 T] = 2° C COP, partial load range under moderate climatic conditions (COPd) 2.93 T] = 7° C COP, partial load range under moderate climatic conditions (COPd) 4.13 T] = 7° C COP, partial load range under moderate climatic conditions (COPd) 5.97 T] = 12° C COP, partial load range under moderate climatic conditions (COPd) 2.17 T] = 10 aud mode temperature under moderate climatic conditions (COPd) 2.07 T] = operating temperature limit under moderate climatic conditions (COPd) 2.07 For airwater heat pumps: T] = -15° C (if TOL < -20° C) (COPd)		%	
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Tj = 7°C COP, partial load range under moderate climatic conditions (COPd) 2.97 Tj = 2°C COP, partial load range under moderate climatic conditions (COPd) 4.13 Tj = 1°C COP, partial load range under moderate climatic conditions (COPd) 5.97 Tj = 12°C COP, partial load range under moderate climatic conditions (COPd) 2.17 Tj = 12°C COP, partial load range under moderate climatic conditions (COPd) 2.17 Tj = qual mode temperature under moderate climatic conditions (COPd) 2.07 Tj = operating temperature limit under moderate climatic conditions (COPd) 0 For air/water heat pumps: Tj = -15°C (if TOL< -20°C) (COPd)	Seasonal room heating efficiency in warmer climates for average	%	139
Tj = 2 °C COP, partial load range under moderate climatic conditions (COPd) Tj = 7 °C COP, partial load range under moderate climatic conditions (COPd) Tj = 7 °C COP, partial load range under moderate climatic conditions (COPd) Tj = 12 °C COP, partial load range under moderate climatic conditions (COPd) Tj = dual mode temperature under moderate climatic conditions (COPd) Tj = operating temperature limit under moderate climatic conditions (COPd) Tj = operating temperature limit under moderate climatic conditions (COPd) For air/water heat pumps: Tj = -15 °C (if TOL < -20 °C) (COPd) Operating temperature limit in moderate climates (TOL) Power consumption, OFF state (Poff) Power consumption, OFF state (Poff) W 17 Power consumption, thermostat OFF state (PTO) Standby power consumption (PSB) W 17 Power consumption, operating state, with crankcase heating (PCK) Booster heater heating output (PSUB) kW 2.93 Type of energy supply, booster heater Power control Annual energy consumption in colder climates for average temperature applications (OHE) Annual energy consumption in moderate climates for average temperature applications (OHE) kWh/a 2089 HN/A 1187	Tj = -7 °C COP, partial load range under moderate climatic conditions		2.07
Tj = 7 °C COP, partial load range under moderate climatic conditions (COPd) Tj = 12 °C COP, partial load range under moderate climatic conditions (COPd) Tj = dual mode temperature under moderate climatic conditions (COPd) Tj = operating temperature limit under moderate climatic conditions (COPd) Tj = operating temperature limit under moderate climatic conditions (COPd) For air/water heat pumps:Tj = -15 °C (if TOL < -20 °C) (COPd) Operating temperature limit in moderate climates (TOL) COPd) Operating temperature limit (WTOL) COPdi Power consumption, OFF state (Poff) W Tower consumption, OFF state (Poff) W Tower consumption, thermostat OFF state (PTO) W Tower consumption, operating state, with crankcase heating (PCK) Booster heater heating output (PSUB) KW Dype of energy supply, booster heater Power control Sound power level external Annual energy consumption in colder climates for average temperature applications (QHE) Annual energy 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 average temperature applications (QHE)	Tj = 2 °C COP, partial load range under moderate climatic conditions	•	2.93
Tj = 12 °C COP, partial load range under moderate climatic conditions (COPd) Tj = dual mode temperature under moderate climatic conditions (COPd) Tj = operating temperature limit under moderate climatic conditions (COPd) For air/water heat pumps:Tj=-15°C (if TOL<-20°C) (COPd) Operating temperature limit in moderate climates (TOL) Power consumption, OFF state (Poff) Power consumption, OFF state (Poff) Standby power consumption, thermostat OFF state (PTO) Standby power consumption, OPSB) Booster heater heating output (PSB) Stound power level external Annual energy consumption in colder 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) **Sound power level external kWh/a **Sound power level external consumption in warmer climates for average temperature applications (QHE) **Weth/a **Sound power level external kWh/a **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 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 average temperature applications (QHE) **Annual energy consumption in warmer climates for average temperature applications (QHE) **Annual energy consumptio	Tj = 7 °C COP, partial load range under moderate climatic conditions		4.13
Tj = dual mode temperature under moderate climatic conditions (COPd) Tj = operating temperature limit under moderate climatic conditions (COPd) For air/water heat pumps:Tj = -15°C (if TOL < -20 °C) (COPd) Operating temperature limit in moderate climates (TOL) Operating temperature limit in moderate climates (TOL) CP Heating water operating temperature limit (WTOL) CP Heating water operating temperature limit (WTOL) CP Ower consumption, OFF state (Poff) CP Ower consumption, thermostat OFF state (PTO) W M M M Standby power consumption (PSB) W M M Power consumption (PSB) W M M Sooster heater heating output (PSUB) CP Ower consumption operating state, with crankcase heating (PCK) W M Sooster heater heating output (PSUB) CP Ower control CP Ower consumption in moderate climates for average temperature applications (QHE) CP Ower consumption in moderate climates for average temperature applications (QHE) CP Ower consumption in warmer climates for average temperature applications (QHE) CP Ower consumption in warmer climates for average temperature applications (QHE) CP OWER OWER OWER OWER OWER OWER OWER OWER	Tj = 12 °C COP, partial load range under moderate climatic conditions	·	5,97
Tj = operating temperature limit under moderate climatic conditions (COPd) For air/water heat pumps:Tj=-15°C (if TOL<-20°C) (COPd) Operating temperature limit in moderate climates (TOL) CC Heating water operating temperature limit (WTOL) Power consumption, OFF state (Poff) Power consumption, OFF state (PTO) Standby power consumption (PSB) Power consumption (PSB) Power consumption, operating state, with crankcase heating (PCK) Booster heater heating output (PSUB) Type of energy supply, booster heater Power control Sound power level external Annual energy consumption in colder climates for average temperature applications (QHE) Annual energy 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 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)	· /		2.17
For air/water heat pumps:Tj= -15°C (if TOL< -20 °C) (COPd) Operating temperature limit in moderate climates (TOL) Reating water operating temperature limit (WTOL) Power consumption, OFF state (Poff) Power consumption, thermostat OFF state (PTO) Standby power consumption (PSB) W 17 Power consumption, operating state, with crankcase heating (PCK) Booster heater heating output (PSUB) Type of energy supply, booster heater Power control Sound power level external Annual energy consumption in colder 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) KWh/a L187	Tj = operating temperature limit under moderate climatic conditions		
Operating temperature limit in moderate climates (TOL) °C -7 Heating water operating temperature limit (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 (PSUB) KW -2.93 Type of energy supply, booster heater electric Power control Sound power level external dB(A) -52 Annual energy consumption in colder climates for average temperature applications (QHE) kWh/a Annual energy consumption in moderate climates for average temperature applications (QHE) kWh/a Annual energy consumption in warmer climates for average temperature applications (QHE)			0
Heating water operating temperature limit (WTOL) Power consumption, OFF state (Poff) Power consumption, thermostat OFF state (PTO) Standby power consumption (PSB) W 17 Power consumption, operating state, with crankcase heating (PCK) Booster heater heating output (PSUB) Type of energy supply, booster heater Power control Sound power level external Annual energy consumption in colder 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) KWh/a LSC W 17 W 18 Booster heater heating output (PSUB) KW 2.93 All Bl(A) S2 Annual energy consumption in colder climates for average temperature applications (QHE) Annual energy 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)		°C	-7
Power consumption, thermostat OFF state (PTO) Standby power consumption (PSB) Power consumption, operating state, with crankcase heating (PCK) Booster heater heating output (PSUB) Type of energy supply, booster heater Power control Sound power level external Annual energy consumption in colder climates for average temperature applications (QHE) Annual energy 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) KWh/a 1187		°C	60
Standby power consumption (PSB) Power consumption, operating state, with crankcase heating (PCK) Booster heater heating output (PSUB) Type of energy supply, booster heater Power control Sound power level external Annual energy consumption in colder climates for average temperature applications (QHE) Annual energy 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) KWh/a L17 BOOSTER W W L293 W L89 W MA W MA W MA MA MA MA MA M	Power consumption, OFF state (Poff)	W	17
Power consumption, operating state, with crankcase heating (PCK) W 5 Booster heater heating output (PSUB) kW 2.93 Type of energy supply, booster heater electric Power control variable Sound power level external dB(A) 52 Annual energy consumption in colder climates for average temperature applications (QHE) kWh/a 2089 Annual energy consumption in moderate climates for average temperature applications (QHE) kWh/a 2089 Annual energy consumption in warmer climates for average temperature applications (QHE) kWh/a 1187	Power consumption, thermostat OFF state (PTO)	W	30
Booster heater heating output (PSUB) Type of energy supply, booster heater Power control Sound power level external Annual energy consumption in colder climates for average temperature applications (QHE) Annual energy 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)	Standby power consumption (PSB)	W	17
Type of energy supply, booster heater Power control Sound power level external Annual energy consumption in colder climates for average temperature applications (QHE) Annual energy 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)	Power consumption, operating state, with crankcase heating (PCK)	W	5
Power control variable Sound power level external dB(A) Annual energy consumption in colder climates for average temperature applications (QHE) Annual energy consumption in moderate climates for average temperature applications (QHE) Annual energy consumption in moderate climates for average temperature applications (QHE) Annual energy consumption in warmer climates for average temperature applications (QHE) kWh/a 1187	Booster heater heating output (PSUB)	kW	2.93
Sound power level external dB(A) 52 Annual energy consumption in colder climates for average temperature applications (QHE) Annual energy 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) kWh/a 1187	Type of energy supply, booster heater		electric
Annual energy consumption in colder climates for average temperature applications (QHE) Annual energy consumption in moderate climates for average temperature applications (QHE) Annual energy consumption in warmer climates for average temperature applications (QHE) kWh/a 2089 kWh/a 1187	Power control Power control		variable
Annual energy consumption in moderate climates for average temperature applications (QHE) Annual energy consumption in warmer climates for average temperature applications (QHE) kWh/a 2089 kWh/a 1187	Sound power level external	dB(A)	52
temperature applications (QHE) Annual energy consumption in warmer climates for average temperature applications (QHE) kWh/a kWh/a 1187		kWh/a	4016
Annual energy consumption in warmer climates for average temperature applications (QHE) kWh/a 1187		kWh/a	2089
	Annual energy consumption in warmer climates for average temperature	kWh/a	1187
		m³/h	1300