

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

		<b>HPA-O 4 CS Plus compact D Set S</b>
		238997
Manufacturer		STIEBEL ELTRON
Heat source		Outside air
Low temperature heat pump		-
With booster heater		x
Combi boiler with heat pump		x
Rated heating output in colder climates for average temperature applications (Prated)	kW	5
Rated heating output in moderate climates for average temperature applications (Prated)	kW	4
Rated heating output in warmer climates for average temperature applications (Prated)	kW	3
Tj = -7 °C heating output, partial load range in colder climates (Pdh)	kW	3.24
Tj = -7 °C heating output, partial load range under moderate climatic conditions (Pdh)	kW	3.4
Tj = 2 °C heating output, partial load range in colder climates (Pdh)	kW	1.9
Tj = 2 °C heating output, partial load range under moderate climatic conditions (Pdh)	kW	2
Tj = 2 °C heating output, partial load range in warmer climates (Pdh)	kW	3.9
Tj = 7 °C heating output, partial load range in colder climates (Pdh)	kW	2.4
Tj = 7 °C heating output, partial load range under moderate climatic conditions (Pdh)	kW	1.3
Tj = 7 °C heating output, partial load range in warmer climates (Pdh)	kW	1.2
Tj = 12 °C heating output, partial load range in colder climates (Pdh)	kW	1.5
Tj = 12 °C heating output, partial load range under moderate climatic conditions (Pdh)	kW	1.5
Tj = 12 °C heating output, partial load range in warmer climates (Pdh)	kW	1.5
Tj = dual mode temperature in colder climates (Pdh)	kW	3.8
Tj = dual mode temperature under moderate climatic conditions (Pdh)	kW	3
Tj = dual mode temperature in warmer climates (Pdh)	kW	4.0
Tj = operating temperature limit in colder climates (Pdh)	kW	3.2
Tj = operating temperature limit under moderate climatic conditions (Pdh)	kW	3.4
Tj = operating temperature limit in warmer climates (Pdh)	kW	3.9
For air/water heat pumps: Tj = -15 °C (if TOL < -20 °C) (Pdh)	kW	0
Dual mode temperature in colder climates (Tbiv)	°C	-10
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 (ηs)	%	105
Seasonal room heating efficiency in moderate climates for average temperature applications (ηs)	%	116
Seasonal room heating efficiency in warmer climates for average temperature applications (ηs)	%	139
Tj = -7 °C COP, partial load range in colder climates (COPd)		2.28
Tj = -7 °C COP, partial load range under moderate climatic conditions (COPd)		2.05
Tj = 2 °C COP, partial load range in colder climates (COPd)		3.40
Tj = 2 °C COP, partial load range under moderate climatic conditions (COPd)		2.94
Tj = 2 °C COP, partial load range in warmer climates (COPd)		2.13
Tj = 7 °C COP, partial load range in colder climates (COPd)		4.66
Tj = 7 °C COP, partial load range under moderate climatic conditions (COPd)		4.13
Tj = 7 °C COP, partial load range in warmer climates (COPd)		3.25
Tj = 12 °C COP, partial load range in colder climates (COPd)		6.65
Tj = 12 °C COP, partial load range under moderate climatic conditions (COPd)		5.97
Tj = 12 °C COP, partial load range in warmer climates (COPd)		5.15
Tj = dual mode temperature in colder climates (COPd)		2.09
Tj = dual mode temperature under moderate climatic conditions (COPd)		2.15

Tj = dual mode temperature in warmer climates (COPd)		2.13
Tj = operating temperature limit in colder climates (COPd)		2.28
Tj = operating temperature limit under moderate climatic conditions (COPd)		2.05
Tj = operating temperature limit in warmer climates (COPd)		2.13
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 (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 moderate climate (Psup)	kW	3.6
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	4884
Annual energy consumption in moderate climates for average temperature applications (QHE)	kWh/a	2618
Annual energy consumption in warmer climates for average temperature applications (QHE)	kWh/a	1467
Flow rate, heat source side	m <sup>3</sup> /h	1300
Load profile		L
Daily power consumption (Qelec)	kWh	4.45
Annual power consumption in colder climates (AEC)	kWh/a	949
Annual power consumption in moderate climates (AEC)	kWh/a	905
Annual power consumption in warmer climates (AEC)	kWh/a	717
Energy efficiency for DHW heating ( $\Gamma_{wh}$ ) under moderate climatic conditions	%	113
Special measures	For all special measures to be taken during assembly, installation or maintenance of the room heater, see the installation instructions	