

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

		HPA-O 8 CS Plus compact D Set S	
		238999	
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		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		6.7
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		5.1
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		6.7
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		6.7
For air/water heat pumps: Tj = -15 °C (if TOL < -20 °C) (Pdh)	kW		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 (ηs)	%		103
Seasonal room heating efficiency in moderate climates for average temperature applications (ηs)	%		125
Seasonal room heating efficiency in warmer climates for average temperature applications (ηs)	%		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)			2.0
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)			3.3
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)			4.6
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)			2.4
Tj = dual mode temperature under moderate climatic conditions (COPd)			2.3

Tj = dual mode temperature in warmer climates (COPd)		2.2
Tj = operating temperature limit in colder climates (COPd)		1.4
Tj = operating temperature limit under moderate climatic conditions (COPd)		2.00
Tj = operating temperature limit in warmer climates (COPd)		2.2
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	-7
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
Booster heater heating output in moderate climate (Psup)	kW	8.0
Booster heater heating output in warmer climates (Psup)	kW	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 <sup>3</sup> /h	2200
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	