Product datasheet: Space heater to Regulation (EU) No 811/2013 (S.I. 2019 No. 539 / Programme 2)

Manufacturer			WPL-A 10.2 W Plus HK 400
Heat source Low temperature heat pump Combination heater with heat pump Combination heater with heat pump Combination heater with heat pump Area the heating output under coder climate conditions for medium-temperature applications (P rabed) Rated heating output under externey climate conditions for medium-temperature applications (P rabed) Rated heating output under externey climate conditions for medium-temperature applications (P rabed) Rated heating output, under warmer climate conditions for medium-temperature applications (P rabed) Rated heating output, partial load range under coder climate conditions (Paid) Till = 2 C heating output, partial load range under exterage climate conditions (Paid) Till = 2 C heating output, partial load range under exterage climate conditions (Paid) Till = 2 C heating output, partial load range under exterage climate conditions (Paid) Till = 2 C heating output, partial load range under exterage climate conditions (Paid) Till = 2 C heating output, partial load range under exterage climate conditions (Paid) Till = 2 C heating output, partial load range under exterage climate conditions (Paid) Till = 2 C heating output, partial load range under exterage climate conditions (Paid) Till = 2 C heating output, partial load range under exterage climate conditions (Paid) Till = 2 C heating output, partial load range under exterage climate conditions (Paid) Till = 2 C heating output, partial load range under exterage climate conditions (Paid) Till = 2 C heating output, partial load range under exterage climate conditions (Paid) Till = 2 C heating output, partial load range under exterage climate conditions (Paid) Till = 2 C heating output, partial load range under coder climate conditions (Paid) Till = 2 C heating output, partial load range under order climate conditions (Paid) Till = 2 C heating output, partial load range under coder climate conditions (Paid) Till = 0 call mode temperature under exterage climate conditions (Paid) Till = 0 call			208429
Note the properties the feel pump	Manufacturer		STIEBEL ELTRON
With auxiliary heater Combination heater with heat pump Reted heating output under colder climate conditions for medium- temperature applications for reaction Rated heating output under experage climate conditions for medium- temperature applications for reaction Rated heating output under experage climate conditions for medium- temperature applications for reaction Rated heating output under experage climate conditions for medium- temperature applications for reaction Rated heating output, partial load range under colder climate conditions (Part) 1] = 7.7 Cheating output, partial load range under average climate conditions (Part) 1] = 7.7 Cheating output, partial load range under average climate conditions (Part) 1] = 7.7 Cheating output, partial load range under varience climate conditions (Part) 1] = 7.7 Cheating output, partial load range under varience climate conditions (Part) 1] = 7.7 Cheating output, partial load range under varience climate conditions (Part) 1] = 7.7 Cheating output, partial load range under varience climate conditions (Part) 1] = 7.7 Cheating output, partial load range under varience climate conditions (Part) 1] = 7.7 Cheating output, partial load range under average climate conditions (Part) 1] = 7.7 Cheating output, partial load range under average climate conditions (Part) 1] = 7.7 Cheating output, partial load range under average climate conditions (Part) 1] = 7.7 Cheating output, partial load range under average climate conditions (Part) 1] = 7.7 Cheating output, partial load range under average climate conditions (Part) 1] = 7.7 Cheating output, partial load range under average climate conditions (Part) 1] = 7.7 Cheating output, partial load range under average climate conditions (Part) 2] = 7.7 Cheating output, partial load range under average climate conditions (Part) 3] = 7.8 Cheating output, partial load range under average climate conditions (Part) 3] = 7.8 Cheating output, partial load range under average climate conditions (Part) 3] = 7.8 Cheating output			Luft
Combination healer with heat pump American Health Compiler and the conditions for medium- Emperature applications if protect) American Health Compiler and the conditions for medium- American Health Compiler and the american Health Compiler and			<u> </u>
Rated heating output under colder climate conditions for medium- temperature augustications of retails Rated heating output under average climate conditions for medium- temperature augustications of praced Rated heating output, under warmer climate conditions for medium- temperature augustications (praced) Rated heating output, under warmer climate conditions Till = 7.7 Cheating output, partial load range under colder climate conditions (Rahl) Till = 7.7 Cheating output, partial load range under average climate conditions (Rahl) Till = 7.7 Cheating output, partial load range under colder climate conditions (Rahl) Till = 7.5 Cheating output, partial load range under average climate conditions (Rahl) Till = 7.5 Cheating output, partial load range under average climate conditions (Rahl) Till = 7.5 Cheating output, partial load range under average climate conditions (Rahl) Till = 7.5 Cheating output, partial load range under average climate conditions (Rahl) Till = 7.5 Cheating output, partial load range under average climate conditions (Rahl) Till = 7.5 Cheating output, partial load range under average climate conditions (Rahl) Till = 7.5 Cheating output, partial load range under average climate conditions (Rahl) Till = 7.5 Cheating output, partial load range under average climate conditions (Rahl) Till = 7.5 Cheating output, partial load range under average climate conditions (Rahl) Till = 7.5 Cheating output, partial load range under average climate conditions (Rahl) Till = 7.5 Cheating output, partial load range under average climate conditions (Rahl) Till = 7.5 Cheating output, partial load range under average climate conditions (Rahl) Till = 7.5 Cheating output, partial load range under average climate conditions (Rahl) Till = 5.5 Cheating output, partial load range under average climate conditions (Rahl) Till = 5.5 Cheating output, partial load range under average climate conditions (Rahl) Till = 5.5 Cheating output, partial load range under average climate conditions	-		
temperature applications (if praced) Anatesh heating output under average climate conditions for medium- temperature applications (if praced) Anatesh heating output under average climate conditions for medium- temperature applications (if praced) Anatesh heating output under warmer climate conditions for medium- temperature applications (if praced) 1 = 7 **C heating output, partial load range under average climate conditions (Pah) 1 = 7 **C heating output, partial load range under colder climate conditions (Pah) 1 = 8 *C heating output, partial load range under average climate conditions (Pah) 1 = 8 *C heating output, partial load range under average climate conditions (Pah) 1 = 8 *C heating output, partial load range under average climate conditions (Pah) 1 = 9 **C heating output, partial load range under average climate conditions (Pah) 1 = 1 **C heating output, partial load range under average climate conditions (Pah) 1 = 1 **C heating output, partial load range under average climate conditions (Pah) 1 = 1 **C heating output, partial load range under average climate conditions (Pah) 1 = 1 **C heating output, partial load range under average climate conditions (Pah) 1 = 1 **C heating output, partial load range under average climate conditions (Pah) 1 = 1 **C heating output, partial load range under average climate conditions (Pah) 1 = 1 **C heating output, partial load range under average climate conditions (Pah) 1 = 1 **C heating output, partial load range under average climate conditions (Pah) 1 = 1 **C heating output, partial load range under average climate conditions (Pah) 1 = 1 **C heating output, partial load range under average climate conditions (Pah) 2 = 1 **C heating output, partial load range under average climate conditions (Pah) 3 = 1 **Departing temperature under vareage climate conditions (Pah) 4 = 1 **Departing temperature under vareage climate conditions (Pah) 5 = 1 = operating temperature under vareage climate conditions (Pah) 5 = 1 = operating temperature under vare	·		<u> </u>
temperature applications (P rated) KW 16 temperature applications (P rated) 6 6 1 = 7.** Cheating output, partial load range under colder climate conditions (Pdh) kW 0.8 1 = 7.** Cheating output, partial load range under average climate conditions (Pdh) kW 0.1 1 = 2.** Cheating output, partial load range under average climate conditions (Pdh) kW 0.2 1 = 2.** Cheating output, partial load range under average climate conditions (Pdh) kW 0.2 1 = 2.** Cheating output, partial load range under average climate conditions (Pdh) kW 0.6 1 = 7.** Cheating output, partial load range under average climate conditions (Pdh) kW 3.8 1 = 7.** Cheating output, partial load range under average climate conditions (Pdh) kW 3.9 1 = 7.** Cheating output, partial load range under average climate conditions (Pdh) kW 3.9 1 = 1.5.** Cheating output, partial load range under average climate conditions (Pdh) kW 4.4 1 = 1.5.** Cheating output, partial load range under average climate conditions (Pdh) kW 4.4 1 = 1.5.** Cheating output, partial load range under average climate conditions (Pdh) kW 4.4 1 = 1.5.** Cheating output,	temperature applications (P rated)	kW	
temperature applications (P rated) 19 – 7.* Cheating output, partial load range under colder climate conditions (Pdh) 11 – 7.* Cheating output, partial load range under average climate conditions (Pdh) 17 – 2.* Cheating output, partial load range under colder climate average climate conditions (Pdh) 17 – 2.* Cheating output, partial load range under average climate conditions (Pdh) 17 – 2.* Cheating output, partial load range under average climate conditions (Pdh) 17 – 2.* Cheating output, partial load range under average climate conditions (Pdh) 17 – 7.* Cheating output, partial load range under average climate conditions (Pdh) 17 – 7.* Cheating output, partial load range under colder climate conditions (Pdh) 17 – 7.* Cheating output, partial load range under average climate conditions (Pdh) 17 – 7.* Cheating output, partial load range under average climate conditions (Pdh) 17 – 7.* Cheating output, partial load range under average climate conditions (Pdh) 17 – 7.* Cheating output, partial load range under average climate conditions (Pdh) 18 – 12.* Cheating output, partial load range under average climate conditions (Pdh) 19 – 12.* Cheating output, partial load range under average climate conditions (Pdh) 19 – 12.* Cheating output, partial load range under average climate conditions (Pdh) 19 – 12.* Cheating output, partial load range under average climate conditions (Pdh) 19 – 12.* Cheating output, partial load range under average climate conditions (Pdh) 19 – 19 – 19 – 19 – 19 – 19 – 19 – 19 –	5 .	kW	12
conditions (Pdh) 1 = 7 **C heating output, partial load range under older climate conditions (Pdh) 1 = 2 **C heating output, partial load range under older climate conditions (Pdh) 2 = 2 **C heating output, partial load range under average climate conditions (Pdh) 2 = 2 **C heating output, partial load range under average climate conditions (Pdh) 3 = 2 **C heating output, partial load range under average climate conditions (Pdh) 3 = 2 **C heating output, partial load range under colder climate conditions (Pdh) 3 = 3 **C heating output, partial load range under colder climate conditions (Pdh) 3 = 3 **C heating output, partial load range under average climate conditions (Pdh) 3 = 3 **C heating output, partial load range under average climate conditions (Pdh) 4 = 4 **C heating output, partial load range under average climate conditions (Pdh) 4 = 4 **C heating output, partial load range under average climate conditions (Pdh) 4 = 4 **C heating output, partial load range under average climate conditions (Pdh) 5 = 4 **C heating output, partial load range under average climate conditions (Pdh) 5 = 4 **C heating output, partial load range under average climate conditions (Pdh) 5 = 4 **C heating output, partial load range under average climate conditions (Pdh) 5 = 4 **C heating output, partial load range under average climate conditions (Pdh) 5 = 4 **C heating output, partial load range under average climate conditions (Pdh) 5 = 4 **C heating output, partial load range under average climate conditions (Pdh) 5 = 4 **C heating output, partial load range under average climate conditions (Pdh) 5 = 4 **C heating output, partial load range under average climate conditions (Pdh) 5 = 4 **C heating output, partial load range under average climate conditions (Pdh) 5 = 4 **C heating output, partial load range under average climate conditions (Pdh) 5 = 5 **C heating enceptature limit under average climate conditions (Pdh) 5 = 5 **C heating enceptature limit under average climate condi	9 ,	kW	6
conditions (Pdh) 1 = 2°C heating output, partial load range under average climate conditions (Pdh) 1 = 2°C heating output, partial load range under average climate conditions (Pdh) 1 = 2°C heating output, partial load range under average climate conditions (Pdh) 1 = 2°C heating output, partial load range under average climate conditions (Pdh) 1 = 7°C heating output, partial load range under average climate conditions (Pdh) 1 = 7°C heating output, partial load range under average climate conditions (Pdh) 1 = 12°C heating output, partial load range under average climate conditions (Pdh) 1 = 12°C heating output, partial load range under average climate conditions (Pdh) 1 = 12°C heating output, partial load range under average climate conditions (Pdh) 1 = 12°C heating output, partial load range under average climate conditions (Pdh) 1 = 12°C heating output, partial load range under average climate conditions (Pdh) 1 = 12°C heating output, partial load range under average climate conditions (Pdh) 2 = 12°C heating output, partial load range under average climate conditions (Pdh) 3 = 12°C heating output, partial load range under average climate conditions (Pdh) 4 = 10°C heating output, partial load range under average climate conditions (Pdh) 5 = 10°C heating output, partial load range under average climate conditions (Pdh) 6 = 10°C heating output, partial load range under average climate conditions (Pdh) 7 = 10°C heating output, partial load range under average climate conditions (Pdh) 8 = 10°C heating output, partial load range under average climate conditions (Pdh) 8 = 10°C heating output, partial load range under average climate conditions (Pdh) 9 = 10°C heating output, partial load range under average climate conditions (Pdh) 1 = 0 operating temperature limit under average climate conditions (Pdh) 1 = 0 operating temperature limit under average climate conditions (Pdh) 1 = 0 operating temperature limit under average climate conditions (Pdh) 1 = 0 operating temper		kW	6,8
conditions (Pdh) Till = 2 °C heating output, partial load range under average climate conditions (Pdh) Till = 7 °C heating output, partial load range under colder climate conditions (Pdh) Till = 7 °C heating output, partial load range under colder climate conditions (Pdh) Till = 7 °C heating output, partial load range under colder climate conditions (Pdh) Till = 7 °C heating output, partial load range under average climate conditions (Pdh) Till = 12 °C heating output, partial load range under warmer climate conditions (Pdh) Till = 12 °C heating output, partial load range under colder climate conditions (Pdh) Till = 12 °C heating output, partial load range under colder climate conditions (Pdh) Till = 12 °C heating output, partial load range under average climate conditions (Pdh) Till = 12 °C heating output, partial load range under average climate conditions (Pdh) Till = 12 °C heating output, partial load range under average climate conditions (Pdh) Till = 12 °C heating output, partial load range under average climate conditions (Pdh) Till = 12 °C heating output, partial load range under average climate conditions (Pdh) Till = 0 output, partial load range under average climate conditions (Pdh) Till = 0 output, partial load range under average climate conditions (Pdh) Till = 0 output, partial load range under average climate conditions (Pdh) Till = 0 output, partial load range under average climate conditions (Pdh) Till = 0 output, partial load range under average climate conditions (Pdh) Till = 0 output, partial load range under average climate conditions (Pdh) Till = 0 output, partial load range under average climate conditions (Pdh) Till = 0 output, partial load range under average climate conditions (Pdh) Till = 0 output, partial load range under average climate conditions (Pdh) Till = 0 output, partial load range under average climate conditions (Pdh) Till = 0 output, partial load range under average climate conditions (Pdh) Till = 0 output, partial load range under average climate c		kW	10,2
conditions (Pdh) Till = 2 °C heating output, partial load range under warmer climate conditions (Pdh) Till = 7 °C heating output, partial load range under colder climate conditions (Pdh) Till = 7 °C heating output, partial load range under average climate conditions (Pdh) Till = 7 °C heating output, partial load range under average climate conditions (Pdh) Till = 12 °C heating output, partial load range under average climate conditions (Pdh) Till = 12 °C heating output, partial load range under colder climate conditions (Pdh) Till = 12 °C heating output, partial load range under average climate conditions (Pdh) Till = 12 °C heating output, partial load range under average climate conditions (Pdh) Till = 12 °C heating output, partial load range under average climate conditions (Pdh) Till = 12 °C heating output, partial load range under average climate conditions (Pdh) Till = 12 °C heating output, partial load range under average climate conditions (Pdh) Till = 0 °C heating output, partial load range under average climate conditions (Pdh) Till = 0 °C heating output, partial load range under average climate conditions (Pdh) Till = 0 °C heating output, partial load range under average climate conditions (Pdh) Till = 0 °C heating output, partial load range under average climate conditions (Pdh) Till = 0 °C heating output, partial load range under average climate conditions (Pdh) Till = 0 °C heating output, partial load range under average climate conditions (Pdh) Till = 0 °C heating output, partial load range under average climate conditions (Pdh) Till = 0 °C heating output, partial load range under colder climate conditions (Pdh) Till = 0 °C heating temperature limit under average climate conditions (Pdh) Till = 0 °C heating temperature limit under average climate conditions (Pdh) Till = 0 °C heating temperature limit under average climate conditions (Pdh) Till = 0 °C heating temperature under average climate conditions (Pdh) Till = 0 °C heating temperature defended temperature average clima		kW	4,1
conditions (Pdh) Ti = 7 °C heating output, partial load range under colder climate conditions (Pdh) Ti = 7 °C heating output, partial load range under average climate conditions (Pdh) Ti = 12 °C heating output, partial load range under average climate conditions (Pdh) Ti = 12 °C heating output, partial load range under colder climate conditions (Pdh) Ti = 12 °C heating output, partial load range under average climate conditions (Pdh) Ti = 12 °C heating output, partial load range under average climate conditions (Pdh) Ti = 12 °C heating output, partial load range under average climate conditions (Pdh) Ti = 12 °C heating output, partial load range under average climate conditions (Pdh) Ti = 12 °C heating output, partial load range under average climate conditions (Pdh) Ti = 12 °C heating output, partial load range under average climate conditions (Pdh) Ti = dual mode temperature under colder climate conditions (Pdh) Ti = dual mode temperature under average climate conditions (Pdh) Ti = dual mode temperature under average climate conditions (Pdh) Ti = operating temperature limit under average climate conditions (Pdh) Ti = operating temperature limit under average climate conditions (Pdh) Dual mode temperature under colder climate conditions (Pdh) Dual mode temperature under colder climate conditions (Pdh) Dual mode temperature under average climate conditions (Tbiv) Cc 1:15 Dual mode temperature under average climate conditions (Tbiv) Cc 2:25 Esessonal space heating energy efficiency under colder climate conditions for medium-temperature applications (Ts) Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications (Ts) Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (Ts) Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications (Ts) Seasonal space heating energy efficiency under colder climate conditions for medium-temperature ap		kW	6,2
conditions (Pdh) 1] = 7 °C heating output, partial load range under average climate conditions (Pdh) 7] = 7 °C heating output, partial load range under warmer climate conditions (Pdh) 7] = 12 °C heating output, partial load range under colder climate conditions (Pdh) 8] 7] = 12 °C heating output, partial load range under oclder climate conditions (Pdh) 8] 8] 8] 8] 8] 1] = 12 °C heating output, partial load range under average climate conditions (Pdh) 8] 8] 8] 1] = 12 °C heating output, partial load range under average climate conditions (Pdh) 8] 8] 8] 1] = 12 °C heating output, partial load range under average climate conditions (Pdh) 8] 9] 1] = 12 °C heating output, partial load range under warmer climate conditions (Pdh) 8] 1] = 12 °C heating output, partial load range under warmer climate conditions (Pdh) 8] 1] = 12 °C heating output, partial load range under warmer climate conditions (Pdh) 8] 1] = dual mode temperature under varmare climate conditions (Pdh) 8] 1] = dual mode temperature under warmer climate conditions (Pdh) 8] 1] = operating temperature under warmer climate conditions (Pdh) 8] 1] = operating temperature limit under average climate conditions (Pdh) 8] 1] = operating temperature limit under average climate conditions (Pdh) 8] 1] = operating temperature limit under warmer climate conditions (Pdh) 8] 1] = operating temperature limit under warmer climate conditions (Pdh) 8] 1] = operating temperature under warmer climate conditions (Pdh) 8] 1] = operating temperature under warmer climate conditions (Pdh) 8] 1] = operating temperature under warmer climate conditions (Pdh) 8] 1] = operating temperature under warmer climate conditions (Pdh) 8] 1] = operating temperature under warmer climate conditions (Pdh) 8] 1] = operating temperature under warmer climate conditions (Pdh) 8] 1] = operating temperature under warmer climate conditions (Pdh) 9] 1] = operating temperature under warmer climate conditions (Pdh) 1] = operating temperature under wa		kW	6,1
conditions (Pdh) The To "Cheating output, partial load range under varmer climate conditions (Pdh) The 12 °C heating output, partial load range under colder climate conditions (Pdh) The 12 °C heating output, partial load range under average climate conditions (Pdh) The 12 °C heating output, partial load range under average climate kW conditions (Pdh) The 12 °C heating output, partial load range under average climate kW conditions (Pdh) The 12 °C heating output, partial load range under warmer climate conditions (Pdh) The 12 °C heating output, partial load range under warmer climate conditions (Pdh) The 12 °C heating output, partial load range under warmer climate conditions (Pdh) The dual mode temperature under colder climate conditions (Pdh) The dual mode temperature under average climate conditions (Pdh) The under the temperature under under average climate conditions (Pdh) The under the temperature limit under colder climate conditions (Pdh) The under the temperature limit under average climate conditions (Pdh) The under temperature under colder climate conditions (Pdh) The under temperature under under average climate conditions (Pdh) The under temperature under colder climate conditions (Pdh) The under temperature under under average climate conditions (Pdh) The under temperature under under average climate conditions (Pdh) The under temperature under under average climate conditions (Pdh) The under temperature under under average climate conditions (Pdh) The under temperature under under average climate conditions (Pdh) The under temperature under under under average climate conditions (Pdh) The under temperature under unde		kW	3,8
conditions (Pdh) 1 = 12 °C heating output, partial load range under colder climate conditions (Pdh) 2 °C heating output, partial load range under average climate conditions (Pdh) 3 = 12 °C heating output, partial load range under average climate conditions (Pdh) 4 °C heating output, partial load range under warmer climate conditions (Pdh) 5 = 12 °C heating output, partial load range under warmer climate conditions (Pdh) 6 °C heating output, partial load range under warmer climate conditions (Pdh) 7 = 12 °C heating output, partial load range under warmer climate conditions (Pdh) 8 °C heating output, partial load range under warmer climate conditions (Pdh) 8 °C heating output, partial load range under warmer climate conditions (Pdh) 9 °C heating temperature under colder climate conditions (Pdh) 1 = dual mode temperature under warmer climate conditions (Pdh) 1 = operating temperature limit under colder climate conditions (Pdh) 1 = operating temperature limit under outper climate conditions (Pdh) 1 = operating temperature limit under warmer climate conditions (Pdh) 1 = operating temperature under outper climate conditions (Pdh) 1 = operating temperature under colder climate conditions (Pdh) 2 °C under the partial partial temperature under colder climate conditions (Tbiv) 3 °C under the partial under warmer climate conditions (Tbiv) 4 °C under the partial under warmer climate conditions (Tbiv) 5 °C under the partial under warmer climate conditions (Tbiv) 6 °C under the partial pa		kW	3,9
conditions (Pdh) T] = 12 °C heating output, partial load range under average climate conditions (Pdh) T] = 12 °C heating output, partial load range under warmer climate conditions (Pdh) T] = 12 °C heating output, partial load range under warmer climate conditions (Pdh) T] = dual mode temperature under colder climate conditions (Pdh) KW 9,1 T] = dual mode temperature under average climate conditions (Pdh) KW 10,2 T] = dual mode temperature under average climate conditions (Pdh) KW 6,7 T] = operating temperature limit under colder climate conditions (Pdh) KW 6,7 T] = operating temperature limit under average climate conditions (Pdh) KW 6,7 T] = operating temperature limit under average climate conditions (Pdh) KW 6,8 T] = operating temperature limit under average climate conditions (Pdh) KW 6,1 Dual mode temperature under colder climate conditions (Pdh) KW 6,1 Dual mode temperature under average climate conditions (Pbh) CC 1,0 Dual mode temperature under average climate conditions (Tbiv) CC Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications (Tsi) Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (Tsi) Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (Tsi) T] = 7 °C COP, partial load range under average climate conditions (COPd) T] = 2 °C COP, partial load range under average climate conditions COPd) T] = 2 °C COP, partial load range under average climate conditions COPd) T] = 2 °C COP, partial load range under average climate conditions COPd) T] = 7 °C COP, partial load range under average climate conditions COPd) T] = 7 °C COP, partial load range under average climate conditions COPd) T] = 7 °C COP, partial load range under average climate conditions COPd) T] = 7 °C COP, partial load range under average climate conditions COPd) T] = 7 °C COP, partial load range under average climate		kW	3,9
Ti = 12 °C heating output, partial load range under average climate conditions (Pdh) Ti = 12 °C heating output, partial load range under warmer climate conditions (Pdh) Ti = 12 °C heating output, partial load range under warmer climate conditions (Pdh) Ti = dual mode temperature under colder climate conditions (Pdh) Ti = dual mode temperature under average climate conditions (Pdh) Ti = dual mode temperature under average climate conditions (Pdh) Ti = dual mode temperature under average climate conditions (Pdh) Ti = operating temperature limit under average climate conditions (Pdh) Ti = operating temperature limit under average climate conditions (Pdh) Ti = operating temperature limit under average climate conditions (Pdh) Ti = operating temperature limit under average climate conditions (Pdh) Ti = operating temperature limit under average climate conditions (Pdh) Dual mode temperature under colder climate conditions (Pdh) Dual mode temperature under average climate conditions (Pdh) Dual mode temperature under average climate conditions (Tbiv) To Dual mode temperature under average climate conditions (Tbiv) To Dual mode temperature under average climate conditions (Tbiv) To Dual mode temperature under average climate conditions (Tbiv) To Dual mode temperature applications (Tbiv) To Dual mode temperature under average climate conditions (Tbiv) To Dual mode temperature under average climate conditions (Tbiv) To Dual mode temperature applications (Tbiv) To Dual mode temperature under average climate conditions (Tbiv) To Dual mode temperature under average climate conditions (Tbiv) To Dual mode temperature under average climate conditions (Tbiv) To Dual mode temperature under average climate conditions (Tbiv) To Dual mode temperature under average climate conditions (Tbiv) To Dual mode temperature under average climate conditions (Tbiv) To COP, partial load range under average climate conditions (COPd) To COP, partial load range under average climate conditions (COPd) To COP, partial lo	Tj = 12 °C heating output, partial load range under colder climate	kW	4,4
Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh) Tj = dual mode temperature under colder climate conditions (Pdh) Tj = dual mode temperature under average climate conditions (Pdh) Tj = dual mode temperature under warmer climate conditions (Pdh) Tj = dual mode temperature under warmer climate conditions (Pdh) Tj = operating temperature limit under colder climate conditions (Pdh) Tj = operating temperature limit under average climate conditions (Pdh) Tj = operating temperature limit under average climate conditions (Pdh) Tj = operating temperature limit under average climate conditions (Pdh) Tj = operating temperature limit under average climate conditions (Pdh) Tj = operating temperature under warmer climate conditions (Pdh) Tj = operating temperature under colder climate conditions (Pdh) Tj = operating temperature under colder climate conditions (Pdh) Tj = operating temperature under colder climate conditions (Pdh) Tj = operating temperature under colder climate conditions (Pdh) Tj = operating temperature under colder climate conditions (Pdh) Tj = operating temperature under colder climate conditions (Pdh) Tj = operating temperature under colder climate conditions (Pdh) Tj = operating temperature under colder climate conditions (Pdh) Tj = operating temperature under colder climate conditions (Pdh) Tj = operating temperature under colder climate conditions (Pdh) Tj = operating temperature under colder climate conditions (Pdh) Tj = operating temperature under colder climate conditions (Pdh) Tj = operating temperature under colder climate conditions (Pdh) Tj = operating temperature under colder climate conditions (COPd) Tj = operating temperature under vareage climate conditions (COPd) Tj = operating temperature under vareage climate conditions (COPd) Tj = operating temperature under vareage climate conditions (COPd) Tj = operating temperature under vareage climate conditions (COPd) Tj = operating temperature under vareage climate conditions (COPd) Tj = operating temperature unde	Tj = 12 °C heating output, partial load range under average climate	kW	4,4
Tj = dual mode temperature under average climate conditions (Pdh) kW 6.1 Tj = operating temperature limit under colder climate conditions (Pdh) kW 6.7 Tj = operating temperature limit under colder climate conditions (Pdh) kW 9.5 Tj = operating temperature limit under average climate conditions (Pdh) kW 9.5 Tj = operating temperature limit under average climate conditions (Pdh) kW 9.5 Dual mode temperature under colder climate conditions (Pdh) kW 6.1 Dual mode temperature under colder climate conditions (Tbiv) °C 1.15 Dual mode temperature under average climate conditions (Tbiv) °C 2.2 Seasonal space heating energy efficiency under colder climate enditions (Tbiv) °C 2.2 Seasonal space heating energy efficiency under colder climate enditions for medium-temperature applications (Ns) °C 1.35 Seasonal space heating energy efficiency under average climate enditions for medium-temperature applications (Ns) °C 1.35 Seasonal space heating energy efficiency under average climate enditions for medium-temperature applications (Ns) °C 1.35 Seasonal space heating energy efficiency under average climate enditions for medium-temperature applications (Ns) °C 1.36 Tj = -7 °C COP, partial load range under colder climate conditions (COPd) °C POP) Tj = -7 °C COP, partial load range under average climate conditions (COPd) °C POP) Tj = 2 °C COP, partial load range under warmer climate conditions (COPd) °C POP) Tj = 2 °C COP, partial load range under warmer climate conditions (COPd) °C POP) Tj = 7 °C COP, partial load range under warmer climate conditions (COPd) °C POP) Tj = 7 °C COP, partial load range under average climate conditions (COPd) °C POP) Tj = 7 °C COP, partial load range under average climate conditions (COPd) °C POP) Tj = 7 °C COP, partial load range under average climate conditions (COPd) °C POP) Tj = 7 °C COP, partial load range under average climate conditions (COPd) °C POP) Tj = 7 °C COP, partial load range under average climate conditions (COPd) °C POP) Tj = 7 °C COP, partial load range under	Tj = 12 °C heating output, partial load range under warmer climate	kW	4,3
Tj = dual mode temperature under warmer climate conditions (Pdh) kW 6,1 Tj = operating temperature limit under colder climate conditions (Pdh) kW 9,5 Tj = operating temperature limit under average climate conditions (Pdh) kW 9,5 Tj = operating temperature limit under average climate conditions (Pdh) kW 6,1 Dual mode temperature under colder climate conditions (Tbiv) °C -1.5 Dual mode temperature under average climate conditions (Tbiv) °C -2.7 Dual mode temperature under average climate conditions (Tbiv) °C -2.7 Dual mode temperature under average climate conditions (Tbiv) °C -2.7 Dual mode temperature under average climate conditions (Tbiv) °C -2.7 Dual mode temperature under average climate conditions (Tbiv) °C -2.7 Dual mode temperature under average climate conditions (Tbiv) °C -2.7 Dual mode temperature under average climate conditions (Tbiv) °C -2.7 Dual mode temperature under average climate conditions (Tbiv) °C -2.7 Dual mode temperature under average climate -3.7 Conditions for medium-temperature applications (Tbiv) °C -3.7 Dual mode temperature under vunder colder climate -3.7 Seasonal space heating energy efficiency under average climate -3.7 Seasonal space heating energy efficiency under average climate -3.7 Seasonal space heating energy efficiency under average climate -3.7 Seasonal space heating energy efficiency under average climate -3.7 Seasonal space heating energy efficiency under average climate -3.7 Seasonal space heating energy efficiency under average climate conditions (COPd) -3.1 Tj = -7 °C COP, partial load range under colder climate conditions (COPd) -3.1 Tj = -7 °C COP, partial load range under average climate conditions (COPd) -3.5 Tj = 2 °C COP, partial load range under warmer climate conditions (COPd) -3.5 Tj = 7 °C COP, partial load range under average climate conditions (COPd) -3.5 Tj = 7 °C COP, partial load range under average climate conditions (COPd) -3.5 Tj = 7 °C COP, partial load range under average climate conditions (COPd) -3.5 Tj = 7 °C COP, partial load range under ave	Tj = dual mode temperature under colder climate conditions (Pdh)	kW	9,1
Tj = operating temperature limit under colder climate conditions (Pdh) kW 9,5 Tj = operating temperature limit under average climate conditions (Pdh) kW 9,5 Tj = operating temperature limit under average climate conditions (Pdh) kW 6,1 Dual mode temperature under colder climate conditions (Tbiv) °C -15 Dual mode temperature under average climate conditions (Tbiv) °C -7 Dual mode temperature under average climate conditions (Tbiv) °C -7 Dual mode temperature under warmer climate conditions (Tbiv) °C -7 Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications (ηs) °C -7 Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (ηs) °C -7 Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (ηs) °C -7 Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (ηs) °C -7 Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (ηs) °C -7 Seasonal space heating energy efficiency under average climate conditions (αDdd) °C -7 Seasonal space heating energy efficiency under average climate conditions (αDdd) °C -7 Seasonal space heating energy efficiency under average climate conditions (αDdd) °C -7 Seasonal space heating energy efficiency under average climate conditions (αDdd) °C -7 Seasonal space heating energy efficiency under average climate conditions (αDdd) °C -7 Seasonal space heating energy efficiency under average climate conditions (αDdd) °C -7 Seasonal space heating energy efficiency under average climate conditions (αDdd) °C -7 Seasonal space heating energy efficiency under average climate conditions (αDdd) °C -7 Seasonal space heating energy efficiency under average climate conditions (αDdd) °C -7 Seasonal space heating energy efficiency under average climate conditions (αDdd) °C -7 Seasonal space heating energy efficiency under average climate c	Tj = dual mode temperature under average climate conditions (Pdh)	kW	10,2
Tj = operating temperature limit under average climate conditions (Pdh) kW 9,5 Tj = operating temperature limit under warmer climate conditions (Pdh) kW 6,1 Dual mode temperature under colder climate conditions (Tbiv) °C -15 Dual mode temperature under average climate conditions (Tbiv) °C -7 Dual mode temperature under warmer climate conditions (Tbiv) °C 2 Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications (fls) % 143 Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (fls) % 157 Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications (fls) % 180 Tj = -7 °C COP, partial load range under colder climate conditions (COPd) % 180 Tj = -7 °C COP, partial load range under average climate conditions (COPd) 2,63 Tj = 2 °C COP, partial load range under average climate conditions (COPd) 4,22 Tj = 2 °C COP, partial load range under average climate conditions (COPd) 5,56 Tj = 7 °C COP, partial load range under colder climate conditions (COPd) 5,56 Tj = 7 °C COP, partial load range under average climate conditions (COPd) 5,32	Tj = dual mode temperature under warmer climate conditions (Pdh)	kW	6,1
Tj = operating temperature limit under warmer climate conditions (Pdh) kW 6,1 Dual mode temperature under colder climate conditions (Tbiv) °C -15 Dual mode temperature under average climate conditions (Tbiv) °C -7 Dual mode temperature under warmer climate conditions (Tbiv) °C 2 Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications (ηs) % 143 Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (ηs) % 157 Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (ηs) % 180 Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications (ηs) % 180 Seasonal space heating energy efficiency under warmer climate conditions (COPd) % 180 Tj = -7 °C COP, partial load range under colder climate conditions (COPd) 3,13 Tj = -7 °C COP, partial load range under average climate conditions (COPd) 4,22 Tj = 2 °C COP, partial load range under warmer climate conditions (COPd) 5,56 Tj = 7 °C COP, partial load range under colder climate conditions (COPd) 5,32 Tj = 7 °C COP, partial load range under average climate conditions <	Tj = operating temperature limit under colder climate conditions (Pdh)	kW	6,7
Dual mode temperature under colder climate conditions (Tbiv) °C -15 Dual mode temperature under average climate conditions (Tbiv) °C -7 Dual mode temperature under warmer climate conditions (Tbiv) °C 2 Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications (Ŋs) % 143 Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (Ŋs) % 157 Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications (Ŋs) % 180 Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications (Ŋs) % 180 Tj = -7 °C COP, partial load range under colder climate conditions (COPd) 3,13 Tj = -7 °C COP, partial load range under average climate conditions (COPd) 2,63 Tj = 2 °C COP, partial load range under average climate conditions (COPd) 3,79 Tj = 2 °C COP, partial load range under warmer climate conditions (COPd) 3,79 Tj = 7 °C COP, partial load range under colder climate conditions (COPd) 5,56 Tj = 7 °C COP, partial load range under average climate conditions (COPd) 5,32 Tj = 7 °C COP, partial load range under average climate conditions (COPd) 5,32 Tj = 7 °C COP, partial load range under warmer climate conditions (COPd) 5,32	Tj = operating temperature limit under average climate conditions (Pdh)	kW	9,5
Dual mode temperature under average climate conditions (Tbiv) °C -7 Dual mode temperature under warmer climate conditions (Tbiv) °C 2 Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications (Ŋs) % 143 Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (Ŋs) % 157 Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (Ŋs) % 180 Tj = -7 °C COP, partial load range under colder climate conditions (COPd) 3,13 Tj = 7 °C COP, partial load range under average climate conditions (COPd) 2,63 Tj = 2 °C COP, partial load range under colder climate conditions (COPd) 4,22 Tj = 2 °C COP, partial load range under warmer climate conditions (COPd) 3,79 Tj = 2 °C COP, partial load range under warmer climate conditions (COPd) 5,56 Tj = 7 °C COP, partial load range under colder climate conditions (COPd) 5,56 Tj = 7 °C COP, partial load range under average climate conditions (COPd) 5,32 Tj = 7 °C COP, partial load range under average climate conditions 4,02	Tj = operating temperature limit under warmer climate conditions (Pdh)	kW	6,1
Dual mode temperature under warmer climate conditions (Tbiv)°C2Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications (ηs)%143Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (ηs)%157Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications (ηs)%180Tj = -7 °C COP, partial load range under colder climate conditions (COPd)3,13Tj = -7 °C COP, partial load range under average climate conditions (COPd)2,63Tj = 2 °C COP, partial load range under colder climate conditions (COPd)4,22Tj = 2 °C COP, partial load range under average climate conditions (COPd)3,79Tj = 2 °C COP, partial load range under warmer climate conditions (COPd)2,90Tj = 7 °C COP, partial load range under colder climate conditions (COPd)5,56Tj = 7 °C COP, partial load range under average climate conditions (COPd)5,32Tj = 7 °C COP, partial load range under average climate conditions (COPd)5,32	Dual mode temperature under colder climate conditions (Tbiv)	°C	-15
Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications (ηs)%143Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (ηs)%157Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (ηs)%180Tj = -7 °C COP, partial load range under colder climate conditions (COPd)3,13Tj = -7 °C COP, partial load range under average climate conditions (COPd)2,63Tj = 2 °C COP, partial load range under average climate conditions (COPd)4,22Tj = 2 °C COP, partial load range under average climate conditions (COPd)3,79Tj = 2 °C COP, partial load range under warmer climate conditions (COPd)2,90Tj = 7 °C COP, partial load range under colder climate conditions (COPd)5,56Tj = 7 °C COP, partial load range under average climate conditions (COPd)5,32Tj = 7 °C COP, partial load range under average climate conditions (COPd)5,32Tj = 7 °C COP, partial load range under average climate conditions (COPd)5,32	Dual mode temperature under average climate conditions (Tbiv)	°C	-7
conditions for medium-temperature applications (ηs)%Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (ηs)%Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications (ηs)%Tj = -7 °C COP, partial load range under colder climate conditions (COPd)3,13Tj = -7 °C COP, partial load range under average climate conditions (COPd)2,63Tj = 2 °C COP, partial load range under colder climate conditions (COPd)4,22Tj = 2 °C COP, partial load range under average climate conditions (COPd)3,79Tj = 2 °C COP, partial load range under warmer climate conditions (COPd)2,90Tj = 7 °C COP, partial load range under colder climate conditions (COPd)5,56Tj = 7 °C COP, partial load range under average climate conditions (COPd)5,32Tj = 7 °C COP, partial load range under average climate conditions (COPd)5,32Tj = 7 °C COP, partial load range under average climate conditions (COPd)5,32	Dual mode temperature under warmer climate conditions (Tbiv)	°C	2
conditions for medium-temperature applications (ηs)%Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications (ηs)%Tj = -7 °C COP, partial load range under colder climate conditions (COPd)3,13Tj = -7 °C COP, partial load range under average climate conditions (COPd)2,63Tj = 2 °C COP, partial load range under colder climate conditions (COPd)4,22Tj = 2 °C COP, partial load range under average climate conditions (COPd)3,79Tj = 2 °C COP, partial load range under average climate conditions (COPd)2,90Tj = 7 °C COP, partial load range under colder climate conditions (COPd)5,56Tj = 7 °C COP, partial load range under average climate conditions (COPd)5,32Tj = 7 °C COP, partial load range under average climate conditions (COPd)5,32Tj = 7 °C COP, partial load range under warmer climate conditions4,02		%	143
conditions for medium-temperature applications (ηs)%Tj = -7 °C COP, partial load range under colder climate conditions (COPd)3,13Tj = -7 °C COP, partial load range under average climate conditions (COPd)2,63Tj = 2 °C COP, partial load range under colder climate conditions (COPd)4,22Tj = 2 °C COP, partial load range under average climate conditions (COPd)3,79Tj = 2 °C COP, partial load range under warmer climate conditions (COPd)2,90Tj = 7 °C COP, partial load range under colder climate conditions (COPd)5,56Tj = 7 °C COP, partial load range under average climate conditions (COPd)5,32Tj = 7 °C COP, partial load range under warmer climate conditions (COPd)5,32		%	157
COPd) Tj = -7 °C COP, partial load range under average climate conditions (COPd) Tj = 2 °C COP, partial load range under colder climate conditions (COPd) Tj = 2 °C COP, partial load range under average climate conditions (COPd) Tj = 2 °C COP, partial load range under average climate conditions (COPd) Tj = 2 °C COP, partial load range under warmer climate conditions (COPd) Tj = 7 °C COP, partial load range under colder climate conditions (COPd) Tj = 7 °C COP, partial load range under average climate conditions (COPd) Tj = 7 °C COP, partial load range under average climate conditions (COPd) Tj = 7 °C COP, partial load range under average climate conditions (COPd)		%	180
(COPd)2,03Tj = 2 °C COP, partial load range under colder climate conditions (COPd)4,22Tj = 2 °C COP, partial load range under average climate conditions (COPd)3,79Tj = 2 °C COP, partial load range under warmer climate conditions (COPd)2,90Tj = 7 °C COP, partial load range under colder climate conditions (COPd)5,56Tj = 7 °C COP, partial load range under average climate conditions (COPd)5,32Tj = 7 °C COP, partial load range under warmer climate conditions4,02			3,13
Tj = 2 °C COP, partial load range under average climate conditions (COPd) Tj = 2 °C COP, partial load range under warmer climate conditions (COPd) Tj = 7 °C COP, partial load range under colder climate conditions (COPd) Tj = 7 °C COP, partial load range under average climate conditions (COPd) Tj = 7 °C COP, partial load range under average climate conditions (COPd) Tj = 7 °C COP, partial load range under warmer climate conditions 4.02			2,63
(COPd) 3,79 Tj = 2 °C COP, partial load range under warmer climate conditions (COPd) 2,90 Tj = 7 °C COP, partial load range under colder climate conditions (COPd) 5,56 Tj = 7 °C COP, partial load range under average climate conditions (COPd) 5,32 Tj = 7 °C COP, partial load range under warmer climate conditions 4.02	· · · · · · · · · · · · · · · · · · ·		4,22
(COPd) 2,90 Tj = 7 °C COP, partial load range under colder climate conditions (COPd) 5,56 Tj = 7 °C COP, partial load range under average climate conditions (COPd) 5,32 Tj = 7 °C COP, partial load range under warmer climate conditions 4.02			3,79
Tj = 7 °C COP, partial load range under colder climate conditions (COPd)5,56Tj = 7 °C COP, partial load range under average climate conditions (COPd)5,32Tj = 7 °C COP, partial load range under warmer climate conditions4.02			2,90
$\frac{\text{(COPd)}}{\text{Tj} = 7 \text{ °C COP, partial load range under warmer climate conditions}}{4.02}$	Tj = 7 °C COP, partial load range under colder climate conditions (COPd)		5,56
Tj = 7 °C COP, partial load range under warmer climate conditions	Tj = 7 °C COP, partial load range under average climate conditions		
			4,02

Tj = 12 °C COP, partial load range under colder climate conditions (COPd)		6,76
Tj = 12 °C COP, partial load range under average climate conditions (COPd)		6,57
Tj = 12 °C COP, partial load range under warmer climate conditions (COPd)		5,73
Tj = dual mode temperature under colder climate conditions (COPd)		2,46
Tj = dual mode temperature under average climate conditions (COPd)		2,63
Tj = dual mode temperature under warmer climate conditions (COPd)		2,90
Tj = operating temperature limit under colder climate conditions (COPd)		1,98
Tj = operating temperature limit under average climate conditions (COPd)		2,42
Tj = operating temperature limit under warmer climate conditions (COPd)		2,90
Operating temperature limit under colder climate conditions (TOL)	°C	-22
Operating temperature limit under average climate conditions (TOL)	°C	-10
Operating temperature limit under warmer climate conditions (TOL)	°C	2
Operating temperature limit of heating water under colder climate conditions (WTOL)	°C	75
Operating temperature limit of heating water under average climate conditions (WTOL)	°C	75
Operating temperature limit of heating water under warmer climate conditions (WTOL)	°C	75
Power consumption, off-mode (Poff)	w	13
Power consumption, thermostat off-mode (PTO)	W	17
Power consumption, standby state (PSB)	w	13
Power consumption, operating state, with crankcase heating (PCK)	W	0
Rated heating output of auxiliary heater under colder climate conditions (PSUP)	kW	4,5
Rated heating output of auxiliary heater under average climate conditions (PSUP)	kW	2,0
Rated heating output of auxiliary heater under warmer climate conditions (PSUP)	kW	0,0
Type of energy supply, auxiliary heater		elektrisch
Output control		veränderlich
Sound power level, outdoor	dB(A)	46
Sound power level, indoor	dB(A)	0
Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)	kWh/a	7499
Annual energy consumption under average climate conditions for medium-temperature applications (QHE)	kWh/a	5951
Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)	kWh/a	1792