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

Manufacturer Heat source Low temperature heat pump  With auxiliary heater  Combination heater with heat pump  Rated heating output under colder climate conditions for medium-temperature applications (P rated) Rated heating output under average climate conditions for medium-temperature applications (P rated) Rated heating output under average climate conditions for medium-temperature applications (P rated) Rated heating output under average climate conditions for medium-temperature applications (P rated) Rated heating output under warmer climate conditions for medium-temperature applications (P rated) Rated heating output under warmer climate conditions for medium-temperature applications (P rated) Rated heating output, partial load range under colder climate conditions (Pdh) Rated heating output, partial load range under average climate conditions (Pdh) Rated heating output, partial load range under average climate conditions (Pdh) Rated heating output, partial load range under average climate conditions (Pdh) Rated heating output, partial load range under average climate conditions (Pdh) Rated heating output, partial load range under average climate conditions (Pdh) Rated heating output, partial load range under warmer climate kW Rated heating output, partial load range under colder climate kW Rated heating output, partial load range under average climate conditions (Pdh) Rated heating output, partial load range under average climate kW Rated heating output, partial load range under average climate kW Rated heating output, partial load range under average climate kW Rated heating output, partial load range under average climate kW Rated heating output, partial load range under average climate kW Rated heating output, partial load range under colder climate kW Rated heating output, partial load range under average climate conditions (Pdh) Rated heating output, partial load range under colder climate conditions (Pdh) Rated heating output, partial load range under average climate conditions (Pdh) Rated heating ou			WPL-S 47 HK dB 400 Premium
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temperature applications (P rated)  Tj = -7 °C heating output, partial load range under colder climate conditions (Pdh)  Tj = -7 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 2 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 2 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 2 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 2 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under colder climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under colder climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under colder climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under colder climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)  KW  82,  Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)  KW  53,  Tj = dual mode temperature under colder climate conditions (Pdh)  KW  54,  Tj = dual mode temperature under average climate conditions (Pdh)  KW  55,  Tj = operating temperature limit under average climate conditions (Pdh)  KW  56,  Tj = operating temperature limit under average climate conditions (Pdh)  KW  57,  Tj = operating temperature limit under average climate conditions (Pdh)  KW  58,  Tj = operating temperature limit under average climate condi	5 · .	kW	62
conditions (Pdh)  Tj = -7 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 2 °C heating output, partial load range under colder climate conditions (Pdh)  Tj = 2 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 2 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 2 °C heating output, partial load range under warmer climate kW 55, Tj = 7 °C heating output, partial load range under colder climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under colder climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under average climate kW 85, Tj = 12 °C heating output, partial load range under colder climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under average climate kW 84, Tj = 12 °C heating output, partial load range under average climate kW 85, Tj = 12 °C heating output, partial load range under average climate kW 85, Tj = 12 °C heating output, partial load range under average climate kW 85, Tj = 0 parting temperature under colder climate conditions (Pdh) kW 55, Tj = 0 parting temperature limit under average climate conditions (Pdh) kW 55, Tj = 0 parting temperature limit under average climate conditions (Pdh) kW 55, Tj = 0 parting temperature limit under average climate conditions (Pdh) kW 55, Tj = 0 parting temperature limit under average climate conditions (Pdh) kW 55, Tj = 0 parting temperature limit under average climate conditions (Pdh) kW 55, Tj = 0 parting temperature limit under average climate conditions (Pdh) kW 55, Tj = 0 parting temperature limit under serage climate conditions (Pdh) kW 55, Tj = 0 parting temper		kW	56
conditions (Pdh)  Tj = 2 °C heating output, partial load range under colder climate conditions (Pdh)  Tj = 2 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 2 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 2 °C heating output, partial load range under warmer climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under colder climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under warmer climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under colder climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)  KW  82,  Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)  KW  83,  Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)  KW  84,  Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)  KW  85,  Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)  KW  86,  Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)  KW  87,  Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)  KW  88,  Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)  KW  89,  Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)  KW  89,  Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)  KW  80,  Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)  KW  81,  Tj = 12 °C heating output, partial load range under warmer c		kW	54,5
conditions (Pdh)  Tj = 2 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 2 °C cheating output, partial load range under warmer climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under colder climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under warmer climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under colder climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)  Tj = dual mode temperature under colder climate conditions (Pdh)  kW  53,  Tj = dual mode temperature under average climate conditions (Pdh)  kW  54,  Tj = dual mode temperature under warmer climate conditions (Pdh)  kW  55,  Tj = operating temperature limit under colder climate conditions (Pdh)  kW  53,  Tj = operating temperature limit under average climate conditions (Pdh)  kW  55,		kW	54,9
conditions (Pdh)  Tj = 2 °C heating output, partial load range under warmer climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under colder climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under warmer climate kW  Tj = 7 °C heating output, partial load range under warmer climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under colder climate kW  Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under average climate kW  Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)  Tj = dual mode temperature under colder climate conditions (Pdh)  kW  53,  Tj = dual mode temperature under average climate conditions (Pdh)  kW  54,  Tj = dual mode temperature limit under average climate conditions (Pdh)  kW  55,  Tj = operating temperature limit under average climate conditions (Pdh)  kW  55,  Tj = operating temperature limit under average climate conditions (Pdh)  kW  53,  Tj = operating temperature limit under average climate conditions (Pdh)  kW  55,		kW	59,8
conditions (Pdh)  Tj = 7 °C heating output, partial load range under colder climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under warmer climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under warmer climate kW  Tj = 12 °C heating output, partial load range under colder climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under warmer climate kW  84,  Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)  KW  53,  Tj = dual mode temperature under colder climate conditions (Pdh)  kW  54,  Tj = dual mode temperature under warmer climate conditions (Pdh)  kW  55,  Tj = operating temperature limit under colder climate conditions (Pdh)  kW  53,  Tj = operating temperature limit under average climate conditions (Pdh)  kW  53,  Tj = operating temperature limit under average climate conditions (Pdh)  kW  53,  Tj = operating temperature limit under average climate conditions (Pdh)  kW  53,  Tj = operating temperature limit under average climate conditions (Pdh)  kW  55,		kW	58,6
conditions (Pdh)  Tj = 7 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 7 °C heating output, partial load range under warmer climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under colder climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under colder climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)  KW  82,  Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)  KW  53,  Tj = dual mode temperature under colder climate conditions (Pdh)  KW  54,  Tj = operating temperature limit under older climate conditions (Pdh)  KW  55,  Tj = operating temperature limit under average climate conditions (Pdh)  KW  55,		kW	55,8
conditions (Pdh)  Tj = 7 °C heating output, partial load range under warmer climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under colder climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)  Tj = dual mode temperature under colder climate conditions (Pdh)  kW  53,  Tj = dual mode temperature under average climate conditions (Pdh)  kW  55,  Tj = operating temperature limit under colder climate conditions (Pdh)  kW  53,  Tj = operating temperature limit under average climate conditions (Pdh)  kW  55,  Tj = operating temperature limit under average climate conditions (Pdh)  kW  55,		kW	75,2
conditions (Pdh)  Tj = 12 °C heating output, partial load range under colder climate conditions (Pdh)  KW  S5, conditions (Pdh)  Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)  KW  S4, conditions (Pdh)  Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)  KW  S2, conditions (Pdh)  KW  S3, Tj = dual mode temperature under colder climate conditions (Pdh)  KW  S4, Tj = dual mode temperature under warmer climate conditions (Pdh)  KW  S5, Tj = operating temperature limit under colder climate conditions (Pdh)  KW  S5, Tj = operating temperature limit under average climate conditions (Pdh)  KW  S5, Tj = operating temperature limit under average climate conditions (Pdh)  KW  S5, Tj = operating temperature limit under average climate conditions (Pdh)  KW  S5, Tj = operating temperature limit under average climate conditions (Pdh)  KW  S5, Tj = operating temperature limit under average climate conditions (Pdh)  KW  S5, Tj = operating temperature limit under average climate conditions (Pdh)  KW  S5, Tj = operating temperature limit under average climate conditions (Pdh)  KW  S5, Tj = operating temperature limit under average climate conditions (Pdh)  KW  S5, Tj = operating temperature limit under average climate conditions (Pdh)  KW		kW	75,4
Tj = 12 °C heating output, partial load range under colder climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)  KW  Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)  KW  Expectation output, partial load range under warmer climate conditions (Pdh)  KW  Expectation output, partial load range under warmer climate kW  Expectation output, partial load range under warmer climate kW  Expectation output, partial load range under warmer climate kW  Expectation output, partial load range under warmer climate kW  Expectation output, partial load range under warmer climate kW  Expectation output, partial load range under average climate conditions (Pdh)  Expectation output, partial load range under average climate conditions (Pdh)  Expectation output, partial load range under average climate conditions (Pdh)  Expectation output, partial load range under average climate conditions (Pdh)  Expectation output, partial load range under average climate conditions (Pdh)  Expectation output, partial load range under average climate conditions (Pdh)  Expectation output, partial load range under average climate conditions (Pdh)  Expectation output, partial load range under average climate conditions (Pdh)  Expectation output, partial load range under average climate conditions (Pdh)  Expectation output, partial load range under average climate conditions (Pdh)  Expectation output, partial load range under average climate conditions (Pdh)  Expectation output, partial load range under average climate conditions (Pdh)  Expectation output, partial load range under average climate conditions (Pdh)  Expectation output, partial load range under average climate conditions (Pdh)  Expectation output, partial load range under average climate conditions (Pdh)  Expectation output, partial load range under average climate conditions (Pdh)  Expectation output, partial load range under average climate conditions (Pdh)  Expectation output, partial load rang		kW	75,8
Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)  Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)  KW  82,  Tj = dual mode temperature under colder climate conditions (Pdh)  KW  53,  Tj = dual mode temperature under average climate conditions (Pdh)  KW  54,  Tj = dual mode temperature under warmer climate conditions (Pdh)  KW  55,  Tj = operating temperature limit under colder climate conditions (Pdh)  KW  55,  Tj = operating temperature limit under average climate conditions (Pdh)  KW  55,		kW	85,2
Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)kW82,Tj = dual mode temperature under colder climate conditions (Pdh)kW53,Tj = dual mode temperature under average climate conditions (Pdh)kW54,Tj = dual mode temperature under warmer climate conditions (Pdh)kW55,Tj = operating temperature limit under colder climate conditions (Pdh)kW53,Tj = operating temperature limit under average climate conditions (Pdh)kW54,Tj = operating temperature limit under warmer climate conditions (Pdh)kW55,	Tj = 12 °C heating output, partial load range under average climate	kW	84,3
Tj = dual mode temperature under average climate conditions (Pdh)kW54,Tj = dual mode temperature under warmer climate conditions (Pdh)kW55,Tj = operating temperature limit under colder climate conditions (Pdh)kW53,Tj = operating temperature limit under average climate conditions (Pdh)kW54,Tj = operating temperature limit under warmer climate conditions (Pdh)kW55,	Tj = 12 °C heating output, partial load range under warmer climate	kW	82,8
Tj = dual mode temperature under warmer climate conditions (Pdh)kW55,Tj = operating temperature limit under colder climate conditions (Pdh)kW53,Tj = operating temperature limit under average climate conditions (Pdh)kW54,Tj = operating temperature limit under warmer climate conditions (Pdh)kW55,	Tj = dual mode temperature under colder climate conditions (Pdh)	kW	53,3
Tj = operating temperature limit under colder climate conditions (Pdh)kW53,Tj = operating temperature limit under average climate conditions (Pdh)kW54,Tj = operating temperature limit under warmer climate conditions (Pdh)kW55,	Tj = dual mode temperature under average climate conditions (Pdh)	kW	54,9
Tj = operating temperature limit under average climate conditions (Pdh) kW 54, Tj = operating temperature limit under warmer climate conditions (Pdh) kW 55,	Tj = dual mode temperature under warmer climate conditions (Pdh)	kW	55,8
Tj = operating temperature limit under warmer climate conditions (Pdh) kW 55,	Tj = operating temperature limit under colder climate conditions (Pdh)	kW	53,3
	Tj = operating temperature limit under average climate conditions (Pdh)	kW	54,9
Dual mode temperature under colder climate conditions (Tbiv) °C -10	Tj = operating temperature limit under warmer climate conditions (Pdh)	kW	55,8
	Dual mode temperature under colder climate conditions (Tbiv)	°C	-10
Dual mode temperature under average climate conditions (Tbiv) °C -	Dual mode temperature under average climate conditions (Tbiv)	°C	-7
<u> </u>		°C	2
Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications (ηs)		%	105
Seasonal space heating energy efficiency under average climate % conditions for medium-temperature applications (ηs) %		%	113
Seasonal space heating energy efficiency under warmer climate % conditions for medium-temperature applications (ηs) %		%	135
Tj = -7 °C COP, partial load range under colder climate conditions (COPd) $2,4$	,		2,46
Tj = -7 °C COP, partial load range under average climate conditions (COPd)	· · · · · · · · · · · · · · · · · · ·		2,20
Tj = 2 °C COP, partial load range under colder climate conditions (COPd)	Tj = 2 °C COP, partial load range under colder climate conditions (COPd)		2,98
Tj = 2 °C COP, partial load range under average climate conditions (COPd)			2,77
Tj = 2 °C COP, partial load range under warmer climate conditions (COPd) $2,3$	· ·		2,35
Tj = 7 °C COP, partial load range under colder climate conditions (COPd)	Tj = 7 °C COP, partial load range under colder climate conditions (COPd)		3,58
Tj = 7 °C COP, partial load range under average climate conditions (COPd) $3,4$	, , , , , , , , , , , , , , , , , , , ,		3,40
Tj = 7 °C COP, partial load range under warmer climate conditions (COPd)	· · · · · · · · · · · · · · · · · · ·		3,04

Tj = 12 °C COP, partial load range under colder climate conditions (COPd)		4,45
Tj = 12 °C COP, partial load range under average climate conditions (COPd)		432,00
Tj = 12 °C COP, partial load range under warmer climate conditions (COPd)		4,11
Tj = dual mode temperature under colder climate conditions (COPd)		2,33
Tj = dual mode temperature under average climate conditions (COPd)		2,20
Tj = dual mode temperature under warmer climate conditions (COPd)		2,35
Tj = operating temperature limit under colder climate conditions (COPd)		1,82
Tj = operating temperature limit under average climate conditions (COPd)		2,03
Tj = operating temperature limit under warmer climate conditions (COPd)		2,35
For air source heat pumps: Tj = -15 °C (if TOL< -20 °C) (COPd)		1,81
Operating temperature limit of heating water under average climate conditions (WTOL)	°C	65
Power consumption, off-mode (Poff)	w	20
Power consumption, thermostat off-mode (PTO)	w	20
Power consumption, standby state (PSB)	w	20
Power consumption, operating state, with crankcase heating (PCK)	w	0
Type of energy supply, auxiliary heater		elektrisch
Output control		fest
Sound power level, outdoor	dB(A)	61
Sound power level, indoor	dB(A)	60
Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)	kWh/a	70865
Annual energy consumption under average climate conditions for medium-temperature applications (QHE)	kWh/a	44323
Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)	kWh/a	21600
Flow rate on heat source side	m³/h	2
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