



KWB Powerfire

Product specification sheet in accordance with EU Regulation
2015/1187 and 2015/1189

The required buffer volume for the boiler must be determined based on KWB planning documentation. All boilers already have integrated temperature controls, so every product is a "package".

TDS2	UNIT	400	500
Stoking mode		automatic	
Share of partial load in relation to nominal load (30%/50%)	%	30	
Temperature control integrated in the boiler (yes/no)		Yes	
Temperature control class		VI	
Contribution of the temperature control to the energy efficiency index of the package	%	4	
Condensing boiler		No	
Combination boiler for hot water and heating		No	
Solid Fuel cogeneration boiler		No	
Preferred fuel		Wood chips	
Rated power	kW	399	499
Partial load	kW	119,7	149,7
Usable heat output at partial load	kW	104,8	104,8
Seasonal space heating energy efficiency in active mode	%	82	82
Boiler efficiency at rated power (NCV* / GCV**)	%	94,1 / 84,7	93,4 / 84,2
Boiler efficiency at partial load (NCV* / GCV**)	%	95,7 / 85,9	95,7 / 85,9
Auxiliary power consumption at nominal heat output	kW	0,847	1,321
Auxiliary power consumption at partial load	kW	0,329	0,329
Auxiliary power consumption at standby	kW	0,024	0,024
Seasonal space heating emissions*** - PM	mg/m ³ (10% O ₂)	7	8
Seasonal space heating emissions*** - OGC	mg/m ³ (10% O ₂)	1	1
Seasonal space heating emissions*** - CO	mg/m ³ (10% O ₂)	76	76
Raumheizungs-Jahresemissionen*** - NOX	mg/m ³ (10% O ₂)	63	64
Other suitable fuel		Wood Pellets	
Usable heat output at nominal heat output	kW	388,1	472
Usable heat output at partial load	kW	99,4	116,2
Seasonal space heating energy efficiency in active mode		81	82
Boiler efficiency at rated power (NCV* / GCV**)	%	93,8 / 86,4	93,6 / 85,5
Boiler efficiency at partial load (NCV* / GCV**)	%	91,8 / 84,7	91,9 / 85,3
Auxiliary power consumption at nominal heat output	kW	0,847	1,110
Auxiliary power consumption at partial load	kW	0,329	0,380
Auxiliary power consumption at standby	kW	0,024	0,024
Seasonal space heating emissions*** - PM	mg/m ³ (10% O ₂)	19	15
Seasonal space heating emissions*** - OGC	mg/m ³ (10% O ₂)	3	3
Seasonal space heating emissions*** - CO	mg/m ³ (10% O ₂)	73	21
Seasonal space heating emissions*** - Nox	mg/m ³ (10% O ₂)	128	141

Precautions: Assembly and installation have to be carried out only by qualified personnel. The instructions are to be followed.

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