



# 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".

TDS	UNIT	TDS 150 KW	TDS 240 KW	TDS 300 KW
Stoking mode (manual/automatic)		automatic		
Share of partial load in relation to nominal load (30%/50%)	%	30		<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 (yes/no)		no		
Combination boiler for hot water and heating (yes/no)		no		
Solid Fuel cogeneration boiler		no		
<b>Preferred fuel</b>		Wood chips		
Rated power	kW	150	245	300
Partial load	kW	45.0	73.5	73.5
Boiler efficiency at rated power (NCV* / GCV**)	%	93,2 / 86,8	93,8 / 87,1	94,4 / 87,7
Boiler efficiency at partial load (NCV* / GCV**)	%	92,1 / 85,7	93,4 / 86,8	93,4 / 86,8
Electrical power consumption at maximum output	kW	0.2700	0.4510	0.4570
Electrical power consumption at partial output	kW	0.1900	0.3630	0.3630
Electrical power consumption at standby	kW	0.0200	0.0290	0.0290
Seasonal space heating energy efficiency in active mode	%	77.0	77.0	77.0
Seasonal space heating emissions - PM	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<40	<40	<40
Seasonal space heating emissions - OGC	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<20	<20	<20
Seasonal space heating emissions - CO	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<500	<500	<500
Seasonal space heating emissions - NOx	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<200	<200	<200
<b>Other suitable fuel</b>		Wood pellets		
Rated power	kW	150	245	300
Partial load	kW	45.0	73.5	73.5
Boiler efficiency at rated power (NCV* / GCV**)	%	93.2	93.8	94.4
Boiler efficiency at partial load (NCV* / GCV**)	%	92.1	93.4	93.4
Electrical power consumption at maximum output	kW	0.1820	0.3550	0.3660
Electrical power consumption at partial output	kW	0.1100	0.2680	0.2680
Electrical power consumption at standby	kW	0.0200	0.0290	0.0290
Seasonal space heating energy efficiency in active mode	%	80.0	81.0	81.0
Seasonal space heating emissions - PM	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<40	<40	<40
Seasonal space heating emissions - OGC	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<20	<20	<20
Seasonal space heating emissions - CO	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<500	<500	<500
Seasonal space heating emissions - NOx	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<200	<200	<200

#### Intellectual Property

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