



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	TDS 240	TDS 300
Stoking mode		automatic		
Share of partial load in relation to nominal load (30%/50%)	%	30		<16
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	150	240	300
Partial load	kW	45,0	72,0	72,0
Usable heat output at partial load	kW	42,9	68,4	68,4
Seasonal space heating energy efficiency in active mode	%	79	83	83
Boiler efficiency at rated power (NCV* / GCV**)	%	92,5 / 83,4	95,8 / 86,5	95,5 / 86,2
Boiler efficiency at partial load (NCV* / GCV**)	%	92,4 / 83,1	95,7 / 86,4	95,7 / 86,4
Auxiliary power consumption at nominal heat output	kW	0,270	0,428	0,477
Auxiliary power consumption at partial load	kW	0,190	0,182	0,182
Auxiliary power consumption at standby	kW	0,0200	0,0340	0,0340
Seasonal space heating emissions*** - PM	mg/m ³ (10% O ₂)	23	5	5
Seasonal space heating emissions*** - OGC	mg/m ³ (10% O ₂)	3	1	1
Seasonal space heating emissions*** - CO	mg/m ³ (10% O ₂)	52	40	40
Raumheizungs-Jahresemissionen*** - NOX	mg/m ³ (10% O ₂)	147	62	63
Other suitable fuel		Wood Pellets		
Usable heat output at nominal heat output	kW	146,6	237,1	284,0
Usable heat output at partial load	kW	43,9	67,5	67,5
Seasonal space heating energy efficiency in active mode		82	84	84
Boiler efficiency at rated power (NCV* / GCV**)	%	93,2 / 86,8	96,0 / 87,9	95,7 / 87,6
Boiler efficiency at partial load (NCV* / GCV**)	%	92,1 / 85,7	96,1 / 88,0	96,1 / 88,0
Auxiliary power consumption at nominal heat output	kW	0,182	0,418	0,470
Auxiliary power consumption at partial load	kW	0,110	0,238	0,238
Auxiliary power consumption at standby	kW	0,0200	0,0340	0,0340
Seasonal space heating emissions*** - PM	mg/m ³ (10% O ₂)	30	5	5
Seasonal space heating emissions*** - OGC	mg/m ³ (10% O ₂)	3	1	1
Seasonal space heating emissions*** - CO	mg/m ³ (10% O ₂)	52	18	18
Seasonal space heating emissions*** - Nox	mg/m ³ (10% O ₂)	99	87	86

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

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