



KWB Pelletfire^{Plus} (E)R

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".

MF2 R S/GS MF2 ER S/GS	UNIT	45 KW	50 KW	55 KW	65 KW	70 KW	75 KW
Stoking mode (manual/automatic)		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					
Factor II (Weighting primary solid fuel boiler and additional heating device)		0					-
Value for III (294/(11*Pr))		0.59	0.54	0.49	0.41	0.38	-
Value for IV (115/(11*Pr))		0.23	0.21	0.19	0.16	0.15	-
Condensing boiler (yes/no)		no					
Combination boiler for hot water and heating (yes/no)		no					
Solid Fuel cogeneration boiler		no					
Preferred fuel		Wood pellets					
Rated power	kW	45	49.5	55	65	69.5	75
Partial load	kW	13.5	14.9	16.5	19.5	20.9	22.5
Boiler efficiency at rated power (NCV* / GCV**)	%	94,4 / 86,8	94,5 / 86,8	94,6 / 86,8	94,9 / 86,9	95,0 / 86,9	95,1 / 86,9
Boiler efficiency at partial load (NCV* / GCV**)	%	93,3 / 85,6	93,8 / 85,8	93,8 / 86,1	94,3 / 86,7	94,5 / 86,9	94,8 / 87,2
Electrical power consumption at maximum output	kW	0.1820	0.1910	0.2010	0.2190	0.2280	0.2380
Electrical power consumption at partial output	kW	0.1110	0.1110	0.1100	0.1090	0.1080	0.1080
Electrical power consumption at standby	kW	0.0249	0.0255	0.0261	0.0273	0.0279	0.0285
EU energy label		A+	A+	A+	A+	A+	-
Energy efficiency index - boiler		118.0	118.0	119.0	120.0	120.0	-
EU energy label - integration with heating circuit control		A+	A+	A+	A+	A+	-
Energy efficiency index - integration with heating circuit control		122.0	122.0	123.0	124.0	124.0	-
Seasonal space heating energy efficiency in active mode	%	80.0	80.0	80.0	81.0	81.0	81.0
Seasonal space heating emissions - PM	mg/m ³ (10 % O ₂)	<40	<40	<40	<40	<40	<40
Seasonal space heating emissions - OGC	mg/m ³ (10 % O ₂)	<20	<20	<20	<20	<20	<20
Seasonal space heating emissions - CO	mg/m ³ (10 % O ₂)	<500	<500	<500	<500	<500	<500
Seasonal space heating emissions - NOx	mg/m ³ (10 % O ₂)	<200	<200	<200	<200	<200	<200

MF2 R S/GS MF2 ER S/GS	UNIT	95 KW	100 KW	108 KW	115 KW	125 KW	135 KW
Stoking mode (manual/automatic)		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					
Factor II (Weighting primary solid fuel boiler and additional heating device)		-					
Value for III (294/(11*Pr))		-					
Value for IV (115/(11*Pr))		-					
Condensing boiler (yes/no)		no					
Combination boiler for hot water and heating (yes/no)		no					
Solid Fuel cogeneration boiler		no					
Preferred fuel		Wood pellets					
Rated power	kW	95	100	108	115	125	135
Partial load	kW	28.5	30.0	32.4	34.5	37.5	40.5
Boiler efficiency at rated power (NCV* / GCV**)	%	95,0 / 86,8	94,9 / 86,8	94,7 / 86,8	94,6 / 86,8	94,5 / 86,7	94,3 / 86,7
Boiler efficiency at partial load (NCV* / GCV**)	%	94,7 / 87,1	94,6 / 87,1	94,5 / 86,8	94,4 / 86,7	94,2 / 86,4	94,0 / 86,2
Electrical power consumption at maximum output	kW	0.2520	0.2530	0.2560	0.2580	0.2610	0.2640
Electrical power consumption at partial output	kW	0.1140	0.1160	0.1200	0.1230	0.1280	0.1320
Electrical power consumption at standby	kW	0.0308	0.0312	0.0322	0.0330	0.0341	0.0340
EU energy label		-	-	-	-	-	-
Energy efficiency index - boiler		-	-	-	-	-	-
EU energy label - integration with heating circuit control		-	-	-	-	-	-
Energy efficiency index - integration with heating circuit control		-	-	-	-	-	-
Seasonal space heating energy efficiency in active mode	%	81.0	81.0	81.0	81.0	81.0	81.0
Seasonal space heating emissions - PM	mg/m ³ (10 % O ₂)	<40	<40	<40	<40	<40	<40
Seasonal space heating emissions - OGC	mg/m ³ (10 % O ₂)	<20	<20	<20	<20	<20	<20
Seasonal space heating emissions - CO	mg/m ³ (10 % O ₂)	<500	<500	<500	<500	<500	<500
Seasonal space heating emissions - NOx	mg/m ³ (10 % O ₂)	<200	<200	<200	<200	<200	<200

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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					
Factor II (Weighting primary solid fuel boiler and additional heating device)		0					
Value for III (294/(11*Pr))		0.59	0.54	0.49	0.41	0.38	-
Value for IV (115/(11*Pr))		0.23	0.21	0.19	0.16	0.15	-
Condensing boiler (yes/no)		no					
Combination boiler for hot water and heating (yes/no)		no					
Solid Fuel cogeneration boiler		no					
Preferred fuel		Wood pellets					
Rated power	kW	45	49.5	55	65	69.5	75
Partial load	kW	13.5	14.9	16.5	19.5	20.9	22.5
Boiler efficiency at rated power (NCV* / GCV**)	%	95,0 / 88,2	94,8 / 88,1	94,7 / 87,9	94,4 / 87,7	94,3 / 87,6	94,1 / 87,4
Boiler efficiency at partial load (NCV* / GCV**)	%	93,7 / 86,8	93,7 / 86,9	93,9 / 87,0	94,2 / 87,2	94,3 / 87,4	94,5 / 87,5
Electrical power consumption at maximum output	kW	0.1214	0.1247	0.1286	0.1357	0.1389	0.1429
Electrical power consumption at partial output	kW	0.0730	0.0777	0.0834	0.0937	0.0984	0.1041
Electrical power consumption at standby	kW	0.0130	0.0130	0.0130	0.0130	0.0130	0.0130
EU energy label		A+	A+	A+	A+	A+	-
Energy efficiency index - boiler		120.0	119.0	120.0	120.0	121.0	-
EU energy label - integration with heating circuit control		A+	A+	A+	A+	A+	-
Energy efficiency index - integration with heating circuit control		124.0	123.0	124.0	124.0	125.0	-
Seasonal space heating energy efficiency in active mode	%	81.0	81.0	81.0	81.0	82.0	81.0
Seasonal space heating emissions - PM	mg/m ³ (10 % O ₂)	<40	<40	<40	<40	<40	<40
Seasonal space heating emissions - OGC	mg/m ³ (10 % O ₂)	<20	<20	<20	<20	<20	<20
Seasonal space heating emissions - CO	mg/m ³ (10 % O ₂)	<500	<500	<500	<500	<500	<500
Seasonal space heating emissions - NOx	mg/m ³ (10 % O ₂)	<200	<200	<200	<200	<200	<200

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