



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	50	55	65	70	75
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					
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		No					
Combination boiler for hot water and heating		No					
Solid Fuel cogeneration boiler		No					
Preferred fuel		Wood Pellets					
Energy efficiency class		A+	A+	A+	A+	A+	-
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
Usable heat output at partial load	kW	13,3	14,8	16,2	19,1	20,5	22,0
Energy efficiency index - boiler		122	122	122	122	123	-
Seasonal space heating energy efficiency in active mode	%	83	83	83	83	83	83
Energy efficiency class - integration with heating circuit control		A++	A++	A++	A++	A++	-
Energy efficiency index - integration with heating circuit control		126	126	126	127	127	-
Boiler efficiency at rated power (NCV* / GCV**)	%	96,4 / 88,3	96,3 / 88,2	96,2 / 88,1	96,1 / 88,0	96,0 / 87,9	95,9 / 87,8
Boiler efficiency at partial load (NCV* / GCV**)	%	94,9 / 86,9	94,9 / 86,9	95,0 / 87,0	95,2 / 87,1	95,2 / 87,2	95,3 / 87,3
Auxiliary power consumption at nominal heat output	kW	0,115	0,119	0,123	0,131	0,135	0,139
Auxiliary power consumption at partial load	kW	0,087	0,087	0,088	0,088	0,088	0,089
Auxiliary power consumption at standby	kW	0,0100	0,0100	0,0100	0,0100	0,0100	0,0100
Auxiliary power consumption at nominal heat output with dust filter	kW	0,131	0,136	0,143	0,154	0,160	0,166
Auxiliary power consumption at partial load with dust filter	kW	0,096	0,097	0,098	0,099	0,100	0,101
Auxiliary power consumption at standby with dust filter	kW	0,0100	0,0100	0,0100	0,0100	0,0100	0,0100
Seasonal space heating emissions*** - PM (with e-filter)	mg/m ³ (10% O ₂)	2 (1)	2 (1)	2 (1)	2 (1)	2 (1)	2 (1)
Seasonal space heating emissions*** - OGC	mg/m ³ (10% O ₂)	1	1	2	2	2	2
Seasonal space heating emissions*** - CO	mg/m ³ (10% O ₂)	53	53	53	53	52	52
Seasonal space heating emissions*** - Nox	mg/m ³ (10% O ₂)	100	99	98	96	95	94

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

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MF2 R S/GS MF2 ER S/GS	UNIT	95	100	108	115	135
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				
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		No				
Combination boiler for hot water and heating		No				
Solid Fuel cogeneration boiler		No				
Preferred fuel		Wood Pellets				
Energy efficiency class		-	-	-	-	-
Rated power	kW	95	100	108	115	135
Partial load	kW	28,5	30,0	32,4	34,5	40,5
Usable heat output at partial load	kW	28,0	29,6	32,1	34,2	40,4
Energy efficiency index - boiler		-	-	-	-	-
Seasonal space heating energy efficiency in active mode	%	84	84	84	84	84
Energy efficiency class - integration with heating circuit control		-	-	-	-	-
Energy efficiency index - integration with heating circuit control		-	-	-	-	-
Boiler efficiency at rated power (NCV* / GCV**)	%	95,8 / 87,7	95,8 / 87,7	95,7 / 87,7	95,7 / 87,7	95,7 / 87,6
Boiler efficiency at partial load (NCV* / GCV**)	%	95,6 / 87,6	95,7 / 87,6	95,8 / 87,7	95,9 / 87,8	96,2 / 88,1
Auxiliary power consumption at nominal heat output	kW	0,161	0,167	0,176	0,184	0,208
Auxiliary power consumption at partial load	kW	0,093	0,094	0,096	0,098	0,103
Auxiliary power consumption at standby	kW	0,0100	0,0100	0,0100	0,0100	0,0100
Auxiliary power consumption at nominal heat output w/ dust filter	kW	0,192	0,199	0,210	0,220	0,247
Auxiliary power consumption at partial load with dust filter	kW	0,1120	0,115	0,121	0,126	0,139
Auxiliary power consumption at standby with dust filter	kW	0,0100	0,0100	0,0100	0,0100	0,0100
Seasonal space heating emissions*** - PM (with e-filter)	mg/m ³ (10% O ₂)	2 (1)	2 (1)	2 (1)	2 (1)	2 (1)
Seasonal space heating emissions*** - OGC	mg/m ³ (10% O ₂)	2	2	2	2	1
Seasonal space heating emissions*** - CO	mg/m ³ (10% O ₂)	39	34	27	21	4
Seasonal space heating emissions*** - Nox	mg/m ³ (10% O ₂)	95	95	96	97	99

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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		No					
Combination boiler for hot water and heating		No					
Solid Fuel cogeneration boiler		No					
Preferred fuel		Wood Pellets					
Energy efficiency class		A+	A+	A+	A+	A+	-
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
Usable heat output at partial load	kW	13,1	14,3	15,5	18,0	19,2	20,4
Energy efficiency index - boiler		122	122	122	123	123	-
Seasonal space heating energy efficiency in active mode	%	83	83	83	83	83	83
Energy efficiency class - integration with heating circuit control		A++	A++	A++	A++	A++	-
Energy efficiency index - integration with heating circuit control		126	126	126	127	127	-
Boiler efficiency at rated power (NCV* / GCV**)	%	95,0 / 88,2	94,8 / 88,0	94,7 / 87,9	94,4 / 87,6	94,3 / 87,5	94,1 / 87,3
Boiler efficiency at partial load (NCV* / GCV**)	%	93,7 / 86,9	93,7 / 86,9	93,9 / 87,1	94,2 / 87,3	94,3 / 87,4	94,5 / 87,6
Auxiliary power consumption at nominal heat output	kW	0,122	0,125	0,130	0,137	0,141	0,145
Auxiliary power consumption at partial load	kW	0,074	0,079	0,085	0,096	0,101	0,107
Auxiliary power consumption at standby	kW	0,0130	0,0130	0,0130	0,0130	0,0130	0,0130
Seasonal space heating emissions*** - PM	mg/m ³ (10% O ₂)	15	15	14	13	13	12
Seasonal space heating emissions*** - OGC	mg/m ³ (10% O ₂)	3	3	3	3	3	3
Seasonal space heating emissions*** - CO	mg/m ³ (10% O ₂)	28	27	25	21	19	17
Seasonal space heating emissions*** - Nox	mg/m ³ (10% O ₂)	101	102	101	101	101	101

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