



KWB Multifire (E)D/ZI

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 D/ZI MF2 E D/ZI	UNIT	MF 2 D/ZI 20 KW	MF2 D/ZI 30 KW	MF2 D/ZI 30 KW	MF2 D/ZI 40 KW	MF2 (E)D/ZI 45 KW	MF2 (E)D/ZI 50 KW	MF2 (E)D/ZI 60 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))		1.34	0.89	0.82	0.67	0.59	0.54	0.45
Value for IV (115/(11*Pr))		0.52	0.35	0.32	0.26	0.23	0.21	0.17
Condensing boiler (yes/no)		no						
Combination boiler for hot water and heating (yes/no)		no						
Solid Fuel cogeneration boiler		no						
Preferred fuel		Wood chips						
Rated power	kW	20	30	32.5	40	45	49.5	60
Partial load	kW	6.0	9.0	9.8	12.0	13.5	14.9	18.0
Boiler efficiency at rated power	%	93.0	93.6	93.8	94.2	94.0	93.9	93.8
Boiler efficiency at partial load	%	90.2	91.6	92.0	93.0	92.6	92.6	92.4
Electrical power consumption at maximum output	kW	0.1400	0.1693	0.1774	0.2010	0.2840	0.2980	0.3290
Electrical power consumption at partial output	kW	0.0760	0.0837	0.0858	0.0920	0.1850	0.1840	0.1840
Electrical power consumption at standby	kW	0.0200	0.0200	0.0200	0.0200	0.2480	0.0254	0.0267
EU energy label		A+	A+	A+	A+	A+	A+	A+
Energy efficiency index - boiler		112.0	115.0	115.0	114.0	114.0	115.0	115.0
EU energy label - integration with heating circuit control		A+	A+	A+	A+	A+	A+	A+
Energy efficiency index - integration with heating circuit control		116.0	119.0	119.0	118.0	118.0	119.0	119.0
Seasonal space heating energy efficiency in active mode	%	75.0	77.0	77.0	77.0	77.0	77.0	77.0
Seasonal space heating emissions - PM	mg/m ³ (10 % O ₂)	<40	<40	<40	<40	<40	<40	<40
Seasonal space heating emissions - OGC	mg/m ³ (10 % O ₂)	<20	<20	<20	<20	<20	<20	<20
Seasonal space heating emissions - CO	mg/m ³ (10 % O ₂)	<500	<500	<500	<500	<500	<500	<500
Seasonal space heating emissions - NOx	mg/m ³ (10 % O ₂)	<200	<200	<200	<200	<200	<200	<200

MF2 D/ZI MF2 E D/ZI	UNIT	MF 2 (E) D/ZI 65 KW	MF2 (E) D/ZI 70 KW	MF2 (E) D/ZI 80 KW	MF2 (E) D/ZI 100 KW	MF2 (E)D/ZI 108 KW	MF2 (E)D/ZI 120 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))		0.41	0.38	-				
Value for IV (115/(11*Pr))		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 chips						
Rated power	kW	65	69.5	80	100	108	120	
Partial load	kW	19.5	20.9	24.0	30.0	32.4	36.0	
Boiler efficiency at rated power	%	93.8	93.7	93.6	93.8	93.9	94.0	
Boiler efficiency at partial load	%	92.3	92.3	92.1	93.3	93.7	94.4	
Electrical power consumption at maximum output	kW	0.3440	0.3580	0.3890	0.3870	0.3860	0.3850	
Electrical power consumption at partial output	kW	0.1830	0.1830	0.1820	0.1830	0.1840	0.1850	
Electrical power consumption at standby	kW	0.0274	0.0280	0.0290	0.0322	0.0336	0.0340	
EU energy label		A+	A+	-	-	-	-	
Energy efficiency index - boiler		115.0	115.0	-	-	-	-	
EU energy label - integration with heating circuit control		A+	A+	-	-	-	-	
Energy efficiency index - integration with heating circuit control		119.0	119.0	-	-	-	-	
Seasonal space heating energy efficiency in active mode	%	77.0	77.0	77.0	77.0	77.0	77.0	
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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KWB Multifire (E)R D/ZI

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The required buffer volume for the boiler must be determined based on KWB planning documentation.
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MF2 R D/ZI MF2 ER D/ZI	UNIT	MF2 (E)R D/ZI 40 KW	MF2 (E)R D/ZI 45 KW	MF2 (E)R D/ZI 50 KW	MF2 (E)R D/ZI 60 KW	MF2 (E)R D/ZI 65 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))		0.67	0.59	0.54	0.45	0.41
Value for IV (115/(11*Pr))		0.26	0.23	0.21	0.17	0.16
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	40	45	49.5	60	65
Partial load	kW	12.0	13.5	14.9	18.0	19.5
Boiler efficiency at rated power	%	94.3	94.4	94.5	94.6	94.9
Boiler efficiency at partial load	%	93.1	93.3	93.8	93.8	94.3
Electrical power consumption at maximum output	kW	0.1730	0.1820	0.1910	0.2010	0.2190
Electrical power consumption at partial output	kW	0.1120	0.1110	0.1110	0.1100	0.1090
Electrical power consumption at standby	kW	0.0240	0.0249	0.0255	0.0261	0.0273
EU energy label		A+	A+	A+	A+	A+
Energy efficiency index - boiler		118.0	118.0	118.0	119.0	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	122.0	123.0	124.0
Seasonal space heating energy efficiency in active mode	%	79.0	80.0	80.0	80.0	81.0
Seasonal space heating emissions - PM	mg/m ³ (10 % O ₂)	<40	<40	<40	<40	<40
Seasonal space heating emissions - OGC	mg/m ³ (10 % O ₂)	<20	<20	<20	<20	<20
Seasonal space heating emissions - CO	mg/m ³ (10 % O ₂)	<500	<500	<500	<500	<500
Seasonal space heating emissions - NOx	mg/m ³ (10 % O ₂)	<200	<200	<200	<200	<200

MF2 D/ZI MF2 E D/ZI	UNIT	MF2 (E)R D/ZI 70 KW	MF2 (E)R D/ZI 80 KW	MF2 (E)R D/ZI 100 KW	MF2 (E)R D/ZI 108 KW	MF2 (E)R D/ZI 120 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	69.5	80	100	108	120
Partial load	kW	20.9	24.0	30.0	32.4	36.0
Boiler efficiency at rated power	%	95.0	95.2	94.9	94.7	94.5
Boiler efficiency at partial load	%	94.5	95.0	94.7	94.5	94.0
Electrical power consumption at maximum output	kW	0.2280	0.2740	0.2530	0.2560	0.2640
Electrical power consumption at partial output	kW	0.1080	0.1070	0.1160	0.1200	0.1320
Electrical power consumption at standby	kW	0.0279	0.0290	0.0312	0.0322	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
Seasonal space heating emissions - PM	mg/m ³ (10 % O ₂)	<40	<40	<40	<40	<40
Seasonal space heating emissions - OGC	mg/m ³ (10 % O ₂)	<20	<20	<20	<20	<20
Seasonal space heating emissions - CO	mg/m ³ (10 % O ₂)	<500	<500	<500	<500	<500
Seasonal space heating emissions - NOx	mg/m ³ (10 % O ₂)	<200	<200	<200	<200	<200

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