



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 E D/ZI	UNIT	20	30	30	40	45	50	60
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))		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		No						
Combination boiler for hot water and heating		No						
Solid Fuel cogeneration boiler		No						
Preferred fuel		Wood Chips						
Energy efficiency class		A+	A+	A+	A+	A+	A+	A+
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
Energy efficiency index - boiler		116	119	119	121	121	121	121
Seasonal space heating energy efficiency in active mode	%	78	80	81	82	82	82	82
Energy efficiency class - integration with heating circuit control		A+	A+	A+	A++	A++	A++	A++
Energy efficiency index - integration with heating circuit control		120	123	123	125	125	125	125
Boiler efficiency at rated power (NCV* / GCV**)	%	94,8 / 85,6	95,1 / 86,3	95,2 / 86,5	95,4 / 87,0	95,3 / 86,8	95,3 / 86,7	95,2 / 86,4
Boiler efficiency at partial load (NCV* / GCV**)	%	92,4 / 83,4	93,5 / 84,9	93,8 / 85,2	94,6 / 86,3	94,6 / 86,2	94,5 / 86,0	94,5 / 85,7
Electrical power consumption at maximum output	kW	0,097	0,115	0,120	0,133	0,137	0,141	0,151
Electrical power consumption at partial output	kW	0,072	0,076	0,076	0,079	0,081	0,083	0,088
Electrical power consumption at standby	kW	0,0100	0,0090	0,0088	0,0080	0,0083	0,0085	0,0090
Electrical power consumption at maximum output - with e-filter	kW	0,120	0,136	0,140	0,152	0,157	0,161	0,171
Electrical power consumption at partial output - with e-filter	kW	0,086	0,091	0,092	0,096	0,098	0,100	0,104
Electrical power consumption at standby - with e-filter	kW	0,0100	0,0100	0,0100	0,0100	0,0100	0,0100	0,0100
Seasonal space heating emissions - PM (10 % O ₂)	mg/m ³	<30	<30	<30	<30	<30	<30	<30
Raumheizungs-Jahreemissionen - OGC (10 % O ₂)	mg/m ³	<16	<16	<16	<16	<16	<16	<16
Seasonal space heating emissions - CO (10 % O ₂)	mg/m ³	<380	<380	<380	<380	<380	<380	<380
Raumheizungs-Jahreemissionen - NOX (10 % O ₂)	mg/m ³	<200	<200	<200	<200	<200	<200	<200

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

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MF2 E D/ZI	UNIT	65	70	80	100	108	120
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))		0,41	0,38	-			
Value for IV (115/(11*Pr))		0,16	0,15	-			
Condensing boiler		No					
Combination boiler for hot water and heating		No					
Solid Fuel cogeneration boiler		No					
Preferred fuel		Wood Chips					
Energy efficiency class		A+	A+	-	-	-	-
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
Energy efficiency index - boiler		120	120	-	-	-	-
Seasonal space heating energy efficiency in active mode	%	82	81	81	82	82	82
Energy efficiency class - integration with heating circuit control		A+	A+	-	-	-	-
Energy efficiency index - integration with heating circuit control		124	124	-	-	-	-
Boiler efficiency at rated power (NCV* / GCV**)	%	95,1 / 86,2	95,0 / 86,0	94,9 / 85,7	95,3 / 86,1	95,5 / 86,2	95,7 / 86,4
Boiler efficiency at partial load (NCV* / GCV**)	%	94,4 / 85,6	94,4 / 85,4	94,3 / 85,1	95,0 / 85,7	95,2 / 85,9	95,6 / 86,3
Electrical power consumption at maximum output	kW	0,155	0,159	0,168	0,210	0,227	0,252
Electrical power consumption at partial output	kW	0,090	0,092	0,096	0,118	0,127	0,140
Electrical power consumption at standby	kW	0,0093	0,0095	0,0100	0,0100	0,0100	0,0100
Electrical power consumption at maximum output - with e-filter	kW	0,176	0,180	0,190	0,240	0,260	0,290
Electrical power consumption at partial output - with e-filter	kW	0,105	0,107	0,111	0,138	0,149	0,165
Electrical power consumption at standby - with e-filter	kW	0,0100	0,0100	0,0100	0,0100	0,0100	0,0100
Seasonal space heating emissions - PM	mg/m ³ (10% O ₂)	<30	<30	<30	<30	<30	<30
Seasonal space heating emissions - OGC	mg/m ³ (10% O ₂)	<16	<16	<16	<16	<16	<16
Seasonal space heating emissions - CO	mg/m ³ (10% O ₂)	<380	<380	<380	<380	<380	<380
Seasonal space heating emissions - Nox	mg/m ³ (10% O ₂)	<200	<200	<200	<200	<200	<200

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KWB Multifire D/ZI - Pellet operation

Product specification sheet in accordance with EU Regulation
2015/1187 and 2015/1189/2015/1187

The required buffer volume for the boiler must be determined based on KWB planning documentation.
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MF2 D/ZI	UNIT	20	30	30	40	45	50	60
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))		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		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+	A+	A+
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
Energy efficiency index - boiler		117	119	120	122	122	122	122
Seasonal space heating energy efficiency in active mode	%	79	81	81	82	83	83	83
Energy efficiency class - integration with heating circuit control		A+	A+	A+	A++	A++	A++	A++
Energy efficiency index - integration with heating circuit control		121	123	124	126	126	126	126
Boiler efficiency at rated power (NCV* / GCV**)	%	93,6 / 86,9	94,4 / 87,6	94,5 / 87,7	95,1 / 88,3	95,0 / 88,2	94,8 / 88,0	94,6 / 87,8
Boiler efficiency at partial load (NCV* / GCV**)	%	90,4 / 83,9	91,9 / 85,3	92,3 / 85,6	93,4 / 86,7	93,6 / 86,8	93,7 / 86,9	94,0 / 87,2
Electrical power consumption at maximum output	kW	0,098	0,108	0,111	0,118	0,122	0,125	0,134
Electrical power consumption at partial output	kW	0,056	0,062	0,064	0,068	0,074	0,079	0,091
Electrical power consumption at standby	kW	0,0130	0,0130	0,0130	0,0130	0,0130	0,0130	0,0130
Seasonal space heating emissions - PM	mg/m ³ (10% O ₂)	<30	<30	<30	<30	<30	<30	<30
Seasonal space heating emissions - OGC	mg/m ³ (10% O ₂)	<16	<16	<16	<16	<16	<16	<16
Seasonal space heating emissions - CO	mg/m ³ (10% O ₂)	<380	<380	<380	<380	<380	<380	<380
Seasonal space heating emissions - Nox	mg/m ³ (10% O ₂)	<200	<200	<200	<200	<200	<200	<200

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KWB Multifire D/ZI -

Pellet operation

Product specification sheet in accordance with EU Regulation 2015/1187 and 2015/1189/2015/1187

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	UNIT	65	70	80	100	108	120
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))		0,41	0,38	-			
Value for IV (115/(11*Pr))		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+	-	-	-	-
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
Energy efficiency index - boiler		123	123	-	-	-	-
Seasonal space heating energy efficiency in active mode		83	83	84	84	84	83
Energy efficiency class - integration with heating circuit control		A++	A++	-	-	-	-
Energy efficiency index - integration with heating circuit control		127	127	-	-	-	-
Boiler efficiency at rated power (NCV* / GCV**)	%	94,4 / 87,6	94,3 / 87,5	94,0 / 87,2	94,0 / 87,2	94,1 / 87,3	94,1 / 87,3
Boiler efficiency at partial load (NCV* / GCV**)	%	94,2 / 87,3	94,3 / 87,4	94,6 / 87,7	94,4 / 87,5	94,3 / 87,4	94,2 / 87,3
Electrical power consumption at maximum output	kW	0,137	0,141	0,149	0,184	0,198	0,219
Electrical power consumption at partial output	kW	0,096	0,101	0,113	0,120	0,122	0,126
Electrical 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)	<30	<30	<30	<30	<30	<30
Seasonal space heating emissions - OGC	mg/m ³ (10% O ₂)	<16	<16	<16	<16	<16	<16
Seasonal space heating emissions - CO	mg/m ³ (10% O ₂)	<380	<380	<380	<380	<380	<380
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. All boilers already have integrated temperature controls, so every product is a "package".

MF2 R D/ZI MF2 ER D/ZI	UNIT	40	45	50	60	65
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))		0,67	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		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	40	45	49,5	60	65
Partial load	kW	12,0	13,5	14,9	18,0	19,5
Energy efficiency index - boiler		122	122	122	122	123
Seasonal space heating energy efficiency in active mode	%	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	126	127
Boiler efficiency at rated power (NCV* / GCV**)	%	96,6 / 88,5	96,5 / 88,4	96,4 / 88,3	96,2 / 88,1	96,1 / 88,0
Boiler efficiency at partial load (NCV* / GCV**)	%	94,8 / 86,8	94,9 / 86,9	94,9 / 86,9	95,1 / 87,1	95,2 / 87,1
Electrical power consumption at maximum output	kW	0,111	0,115	0,119	0,127	0,131
Electrical power consumption at partial output	kW	0,087	0,087	0,087	0,088	0,088
Electrical power consumption at standby	kW	0,010	0,010	0,010	0,010	0,010
Electrical power consumption at maximum output - with e-filter	kW	0,125	0,131	0,136	0,149	0,154
Electrical power consumption at partial output - with e-filter	kW	0,095	0,096	0,097	0,099	0,099
Electrical power consumption at standby - with e-filter	kW	0,010	0,010	0,010	0,010	0,010
Seasonal space heating emissions - PM	mg/m ³ (10% O ₂)	<30	<30	<30	<30	<30
Seasonal space heating emissions - OGC	mg/m ³ (10% O ₂)	<16	<16	<16	<16	<16
Seasonal space heating emissions - CO	mg/m ³ (10% O ₂)	<380	<380	<380	<380	<380
Seasonal space heating emissions - Nox	mg/m ³ (10% O ₂)	<200	<200	<200	<200	<200

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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 D/ZI MF2 ER D/ZI	UNIT	70	80	100	108	120
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))		0,38	-			
Value for IV (115/(11*Pr))		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+	-	-	-	-
Rated power	kW	69,5	80	100	108	120
Partial load	kW	20,9	24,0	30,0	32,4	36,0
Energy efficiency index - boiler		123	-	-	-	-
Seasonal space heating energy efficiency in active mode	%	83	84	84	84	84
Energy efficiency class - integration with heating circuit control		A++	-	-	-	-
Energy efficiency index - integration with heating circuit control		127	-	-	-	-
Boiler efficiency at rated power (NCV* / GCV**)	%	96,0 / 87,9	95,8 / 87,7	95,8 / 87,7	95,8 / 87,7	95,7 / 87,7
Boiler efficiency at partial load (NCV* / GCV**)	%	95,2 / 87,2	95,4 / 87,4	95,7 / 87,6	95,7 / 87,6	95,9 / 87,8
Electrical power consumption at maximum output	kW	0,135	0,143	0,167	0,176	0,190
Electrical power consumption at partial output	kW	0,088	0,089	0,094	0,096	0,099
Electrical power consumption at standby	kW	0,010	0,010	0,010	0,010	0,010
Electrical power consumption at maximum output - with e-filter	kW	0,160	0,172	0,199	0,210	0,227
Electrical power consumption at partial output - with e-filter	kW	0,100	0,102	0,115	0,121	0,129
Electrical power consumption at standby - with e-filter	kW	0,010	0,010	0,010	0,010	0,010
Seasonal space heating emissions - PM	mg/m ³ (10% O ₂)	<30	<30	<30	<30	<30
Seasonal space heating emissions - OGC	mg/m ³ (10% O ₂)	<16	<16	<16	<16	<16
Seasonal space heating emissions - CO	mg/m ³ (10% O ₂)	<380	<380	<380	<380	<380
Seasonal space heating emissions - Nox	mg/m ³ (10% O ₂)	<200	<200	<200	<200	<200

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