



KWB Multifire 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	UNIT	20	30	30 ¹	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
Usable heat output at partial load	kW	6,0	8,8	9,4	11,5	12,8	14,2	16,8
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
Auxiliary power consumption at nominal heat output	kW	0,097	0,115	0,120	0,133	0,137	0,141	0,151
Auxiliary power consumption at partial load	kW	0,072	0,076	0,076	0,079	0,081	0,083	0,088
Auxiliary power consumption at standby	kW	0,0100	0,0090	0,0088	0,0080	0,0083	0,0085	0,0090
Seasonal space heating emissions*** - PM	mg/m ³ (10% O ₂)	16	11	9	5	5	5	5
Seasonal space heating emissions*** - OGC	mg/m ³ (10% O ₂)	2	1	1	1	1	1	1
Seasonal space heating emissions*** - CO	mg/m ³ (10% O ₂)	74	54	49	34	36	38	43
Seasonal space heating emissions*** - Nox	mg/m ³ (10% O ₂)	69	72	73	75	74	73	71

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

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KWB Multifire 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 D/ZI	UNIT	20	30	30 ¹	40	45	50	60
Other suitable fuel		Wood Pellets						
Energy efficiency class		A+	A+	A+	A+	A+	A+	A+
Usable heat output at nominal heat output	kW	19,7	30	32,5	40,2	45,6	51,0	61,9
Usable heat output at partial load	kW	5,9	8,9	9,6	11,8	13,1	14,3	16,7
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
Auxiliary power consumption at nominal heat output	kW	0,098	0,108	0,111	0,118	0,122	0,125	0,134
Auxiliary power consumption at partial load	kW	0,056	0,062	0,064	0,068	0,074	0,079	0,091
Auxiliary 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)	11	13	14	15	15	15	14
Seasonal space heating emissions*** - OGC	mg/m ³ (10% O ₂)	5	4	4	3	3	3	3
Seasonal space heating emissions*** - CO	mg/m ³ (10% O ₂)	57	44	40	30	28	27	23
Seasonal space heating emissions*** - Nox	mg/m ³ (10% O ₂)	117	110	108	102	101	102	100

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KWB Multifire 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 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
Usable heat output at partial load	kW	18,1	19,5	22,1	28,4	30,9	34,6
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
Auxiliary power consumption at nominal heat output	kW	0,155	0,159	0,168	0,210	0,227	0,252
Auxiliary power consumption at partial load	kW	0,090	0,092	0,096	0,118	0,127	0,140
Auxiliary power consumption at standby	kW	0,0093	0,0095	0,0100	0,0100	0,0100	0,0100
Seasonal space heating emissions*** - PM	mg/m ³ (10% O ₂)	5	5	4	4	5	5
Seasonal space heating emissions*** - OGC	mg/m ³ (10% O ₂)	1	1	2	2	1	1
Seasonal space heating emissions*** - CO	mg/m ³ (10% O ₂)	45	47	52	31	23	10
Seasonal space heating emissions*** - Nox	mg/m ³ (10% O ₂)	69	68	66	65	65	65

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KWB Multifire 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 D/ZI	UNIT	65	70	80	100	108	120
Other suitable fuel		Wood Pellets					
Energy efficiency class		A+	A+	-	-	-	-
Usable heat output at nominal heat output	kW	67,3	72,7	83,6	105,5	114,2	127,4
Usable heat output at partial load	kW	18,0	19,2	21,6	28,0	30,5	34,3
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
Auxiliary power consumption at nominal heat output	kW	0,137	0,141	0,149	0,184	0,198	0,219
Auxiliary power consumption at partial load	kW	0,096	0,101	0,113	0,120	0,122	0,126
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)	13	13	12	13	14	15
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)	21	19	16	23	26	35
Seasonal space heating emissions*** - Nox	mg/m ³ (10% O ₂)	101	101	100	103	104	107

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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.
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MF2 E D/ZI	UNIT	20	30	30 ¹	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
Usable heat output at partial load	kW	6,0	8,8	9,4	11,5	12,8	14,2	16,8
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
Auxiliary power consumption at nominal heat output with dust filter	kW	0,120	0,136	0,140	0,152	0,157	0,161	0,171
Auxiliary power consumption at partial load with dust filter	kW	0,086	0,091	0,092	0,096	0,098	0,100	0,104
Auxiliary power consumption at standby with dust filter	kW	0,0100	0,0100	0,0100	0,0100	0,0100	0,0100	0,0100
Seasonal space heating emissions*** - PM	mg/m ³ (10% O ₂)	2	1	1	1	1	1	1
Seasonal space heating emissions*** - OGC	mg/m ³ (10% O ₂)	2	1	1	1	1	1	1
Seasonal space heating emissions*** - CO	mg/m ³ (10% O ₂)	74	54	49	34	36	38	43
Seasonal space heating emissions*** - Nox	mg/m ³ (10% O ₂)	69	72	73	75	74	73	71

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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 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
Usable heat output at partial load	kW	18,1	19,5	22,1	28,4	30,9	34,6
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
Auxiliary power consumption at nominal heat output with dust filter	kW	0,176	0,180	0,190	0,240	0,260	0,290
Auxiliary power consumption at partial load with dust filter	kW	0,105	0,107	0,111	0,138	0,149	0,165
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	mg/m ³ (10% O ₂)	1	1	1	1	1	1
Seasonal space heating emissions*** - OGC	mg/m ³ (10% O ₂)	1	1	2	2	1	1
Seasonal space heating emissions*** - CO	mg/m ³ (10% O ₂)	45	47	52	31	23	10
Seasonal space heating emissions*** - Nox	mg/m ³ (10% O ₂)	69	68	66	66	65	65

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KWB Multifire D/ZI – Pellet operation

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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 D/ZI	UNIT	20	30	30 ¹	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
Usable heat output at partial load	kW	5,9	8,9	9,6	11,8	13,1	14,3	16,7
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
Auxiliary power consumption at nominal heat output	kW	0,098	0,108	0,111	0,118	0,122	0,125	0,134
Auxiliary power consumption at partial load	kW	0,056	0,062	0,064	0,068	0,074	0,079	0,091
Auxiliary 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)	11	13	14	15	15	15	14
Seasonal space heating emissions*** - OGC	mg/m ³ (10% O ₂)	5	4	4	3	3	3	3
Seasonal space heating emissions*** - CO	mg/m ³ (10% O ₂)	57	44	40	30	28	27	23
Seasonal space heating emissions*** - Nox	mg/m ³ (10% O ₂)	117	110	108	102	101	102	100

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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 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
Usable heat output at partial load	kW	18,0	19,2	21,6	28,0	30,5	34,3
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
Auxiliary power consumption at nominal heat output	kW	0,137	0,141	0,149	0,184	0,198	0,219
Auxiliary power consumption at partial load	kW	0,096	0,101	0,113	0,120	0,122	0,126
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)	13	13	12	13	14	15
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)	21	19	16	23	26	35
Seasonal space heating emissions*** - Nox	mg/m ³ (10% O ₂)	101	101	100	103	104	107

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

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KWB Multifire (E)R 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 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
Usable heat output at partial load	kW	11,9	13,3	14,8	17,7	19,1
Energy efficiency index – boiler		122	122	122	122	122
Seasonal space heating energy efficiency in active mode	%	82	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	126
Boiler efficiency at rated power (NCV* / GCV**)	%	96,5 / 88,4	96,4 / 88,3	96,3 / 88,2	96,1 / 88,0	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
Auxiliary power consumption at nominal heat output	kW	0,111	0,115	0,119	0,127	0,131
Auxiliary power consumption at partial load	kW	0,087	0,087	0,087	0,088	0,088
Auxiliary power consumption at standby	kW	0,010	0,010	0,010	0,010	0,010
Auxiliary power consumption at nominal heat output w/ dust filter	kW	0,125	0,131	0,136	0,149	0,154
Auxiliary power consumption at partial load with dust filter	kW	0,095	0,096	0,097	0,099	0,099
Auxiliary power consumption at standby with dust filter	kW	0,010	0,010	0,010	0,010	0,010
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)	1	1	1	2	2
Seasonal space heating emissions*** - CO	mg/m ³ (10% O ₂)	54	53	53	53	53
Seasonal space heating emissions*** - Nox	mg/m ³ (10% O ₂)	101	100	99	97	96

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KWB Multifire (E)R 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 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
Usable heat output at partial load	kW	20,5	23,4	29,6	32,1	35,8
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	95,7 / 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	95,8 / 87,6	96,0 / 87,8
Auxiliary power consumption at nominal heat output	kW	0,135	0,143	0,167	0,176	0,190
Auxiliary power consumption at partial load	kW	0,088	0,089	0,094	0,096	0,099
Auxiliary power consumption at standby	kW	0,010	0,010	0,010	0,010	0,010
Auxiliary power consumption at nominal heat output with dust filter	kW	0,160	0,172	0,199	0,210	0,227
Auxiliary power consumption at partial load with dust filter	kW	0,100	0,102	0,115	0,121	0,129
Auxiliary power consumption at standby with dust filter	kW	0,010	0,010	0,010	0,010	0,010
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	3	2	2	2
Seasonal space heating emissions*** - CO	mg/m ³ (10% O ₂)	52	52	35	34	21
Seasonal space heating emissions*** - Nox	mg/m ³ (10% O ₂)	95	93	95	95	97

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