



# KWB Classicfire 1

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 an "integrated system".

CF1	UNIT	CF1 15 KW	CF1 20 KW
Stoking mode (manual/automatic)		manual	
Share of partial load in relation to nominal load (30%/50%)	%	-	
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))		1.78	1.34
Value for IV (115/(11*Pr))		0.70	0.52
Condensing boiler (yes/no)		no	
Combination boiler for hot water and heating (yes/no)		no	
Solid Fuel cogeneration boiler		no	
<b>Preferred fuel</b>		Log wood, Water content < 25 %	
Rated power	kW	15	20
Partial load	kW	-	-
Boiler efficiency at rated power (NCV* / GCV**)	%	92,5 / 83,7	92,0 / 83,3
Boiler efficiency at partial load (NCV* / GCV**)	%	-	-
Electrical power consumption at maximum output	kW	0.0370	0.0420
Electrical power consumption at partial output	kW	0.0360	0.0360
Electrical power consumption at standby	kW	0.0090	0.0090
EU energy label		A+	A+
Energy efficiency index - boiler		116.0	115.0
EU energy label - integration with heating circuit control		A+	A+
Energy efficiency index - integration with heating circuit control		120.0	119.0
Seasonal space heating energy efficiency in active mode	%	78.0	78.0
Seasonal space heating emissions - PM	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	< 60	< 60
Seasonal space heating emissions - OGC	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	< 30	< 30
Seasonal space heating emissions - CO	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	< 700	< 700
Seasonal space heating emissions - NOx	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	< 200	< 200

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# KWB Classicfire / KWB Combifire

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 an "integrated system".

CF1.5 / CF2	UNIT	CF1.5 18 KW	CF1.5 28 KW	CF1.5 32 KW	CF1.5 38 KW	CF2 18 KW	CF2 28 KW	CF2 32 KW	CF2 38 KW
Stoking mode (manual/automatic)		manual							
Share of partial load in relation to nominal load (30%/50%)	%	50							
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))		1.46	0.93	0.84	0.70	1.46	0.93	0.84	0.70
Value for IV (115/(11*Pr))		0.57	0.37	0.33	0.28	0.57	0.37	0.33	0.28
Condensing boiler (yes/no)		no							
Combination boiler for hot water and heating (yes/no)		no							
Solid Fuel cogeneration boiler		no							
<b>Preferred fuel</b>		Log wood							
Rated power	kW	18.3	28.6	31.9	38	18.3	28.6	31.9	38
Partial load	kW	14.3	14.3	14.2	14.2	14.3	14.3	14.2	14.2
Boiler efficiency at rated power (NCV* / GCV**)	%	93,4 / 83,1	92,4 / 81,7	92,4 / 83,6	91,8 / 83,7	93,4 / 83,1	92,4 / 81,7	92,4 / 83,6	91,8 / 83,7
Boiler efficiency at partial load (NCV* / GCV**)	%	93,0 / 82,3	93,0 / 82,3	93,0 / 83,7	93,0 / 83,7	93,0 / 82,3	93,0 / 82,3	93,0 / 83,7	93,0 / 83,7
Electrical power consumption at maximum output	kW	0.0660	0.0910	0.0710	0.0800	0.0660	0.0910	0.0710	0.0800
Electrical power consumption at partial output	kW	0.0550	0.0550	0.0550	0.0550	0.0550	0.0550	0.0550	0.0550
Electrical power consumption at standby	kW	0.0090	0.0090	0.0090	0.0090	0.0090	0.0090	0.0090	0.0090
EU energy label		A+	A+	A+	A+	A+	A+	A+	A+
Energy efficiency index – boiler		116.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0
EU energy label – integration with heating circuit control		A+	A+	A+	A+	A+	A+	A+	A+
Energy efficiency index – integration with heating circuit control		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
Seasonal space heating energy efficiency in active mode	%	78.0	78.0	79.0	78.0	78.0	78.0	79.0	78.0
Seasonal space heating emissions – PM	mg/m <sup>3</sup> (10% O <sub>2</sub> )	<60	<60	<60	<60	<60	<60	<60	<60
Seasonal space heating emissions – OGC	mg/m <sup>3</sup> (10% O <sub>2</sub> )	<30	<30	<30	<30	<30	<30	<30	<30
Seasonal space heating emissions – CO	mg/m <sup>3</sup> (10% O <sub>2</sub> )	<700	<700	<700	<700	<700	<700	<700	<700
Seasonal space heating emissions – NOx	mg/m <sup>3</sup> (10% O <sub>2</sub> )	<200	<200	<200	<200	<200	<200	<200	<200
<b>Other suitable fuel</b>		Wood pellets							
Rated power	kW	22	30	30	35	22	30	30	35
Partial load	kW	6.6	9.0	9.6	10.5	6.6	9.0	9.6	10.5
Boiler efficiency at rated power (NCV* / GCV**)	%	93,0 / 85,5	92,0 / 83,1	92,0 / 82,8	91,4 / 84,1	93,0 / 85,5	92,0 / 83,1	92,0 / 82,8	91,4 / 84,1
Boiler efficiency at partial load (NCV* / GCV**)	%	90,9 / 83,9	91,0 / 82,2	91,0 / 82,3	91,0 / 84,1	90,9 / 83,9	91,0 / 82,2	91,0 / 82,3	91,0 / 84,1
Electrical power consumption at maximum output	kW	0.0810	0.1011	0.0990	0.1100	0.0810	0.1011	0.0990	0.1100
Electrical power consumption at partial output	kW	0.0500	0.0535	0.0530	0.0550	0.0500	0.0535	0.0530	0.0550
Electrical power consumption at standby	kW	0.0100	0.0100	0.0095	0.0100	0.0100	0.0100	0.0095	0.0100
EU energy label		A+	A+	A+	A+	A+	A+	A+	A+
Energy efficiency index – boiler		116.0	115.0	116.0	116.0	116.0	115.0	116.0	116.0
EU energy label – integration with heating circuit control		A+	A+	A+	A+	A+	A+	A+	A+
Energy efficiency index – integration with heating circuit control		120.0	119.0	120.0	120.0	120.0	119.0	120.0	120.0
Seasonal space heating energy efficiency in active mode	%	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
Seasonal space heating emissions – PM	mg/m <sup>3</sup> (10% O <sub>2</sub> )	<40	<40	<40	<40	<40	<40	<40	<40
Seasonal space heating emissions – OGC	mg/m <sup>3</sup> (10% O <sub>2</sub> )	<20	<20	<20	<20	<20	<20	<20	<20
Seasonal space heating emissions – CO	mg/m <sup>3</sup> (10% O <sub>2</sub> )	<500	<500	<500	<500	<500	<500	<500	<500
Seasonal space heating emissions – NOx	mg/m <sup>3</sup> (10% O <sub>2</sub> )	<200	<200	<200	<200	<200	<200	<200	<200

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# KWB Easyfire 1 / KWB Easyfire 1 Plus

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".

USP V/GS	UNIT	USP 10 KW	USP 15 KW	USP 20 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))		2.57	1.78	1.34
Value for IV (115/(11*Pr))		1.01	0.70	0.52
Condensing boiler (yes/no)		no		
Combination boiler for hot water and heating (yes/no)		no		
Solid Fuel cogeneration boiler		no		
<b>Preferred fuel</b>		Wood pellets		
Rated power	kW	10.4	15	20
Partial load	kW	3.1	4.5	5.6
Boiler efficiency at rated power (NCV* / GCV**)	%	91,0 / 84,1	91,7 / 84,8	92,5 / 85,5
Boiler efficiency at partial load (NCV* / GCV**)	%	90,7 / 83,8	90,4 / 83,5	90,1 / 83,3
Electrical power consumption at maximum output	kW	0.0600	0.0735	0.0870
Electrical power consumption at partial output	kW	0.0360	0.0385	0.0410
Electrical power consumption at standby	kW	0.0077	0.0077	0.0077
EU energy label		A+	A+	A+
Energy efficiency index - boiler		115.0	115.0	115.0
EU energy label - integration with heating circuit control		A+	A+	A+
Energy efficiency index - integration with heating circuit control		119.0	119.0	119.0
Seasonal space heating energy efficiency in active mode	%	77.0	78.0	78.0
Seasonal space heating emissions - PM	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<40	<40	<40
Seasonal space heating emissions - OGC	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<20	<20	<20
Seasonal space heating emissions - CO	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<500	<500	<500
Seasonal space heating emissions - NOx	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<200	<200	<200

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# KWB Easyfire 2

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".

EF2 S / EF2 GS / EF2 V	UNIT	EF2 8 KW	EF2 12 KW	EF2 15 KW	EF2 22 KW	EF2 25 KW	EF2 30 KW	EF2 35 KW	EF2 38 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))		3.34	2.23	1.78	1.21	1.07	0.89	0.77	0.70
Value for IV (115/(11*Pr))		1.31	0.87	0.70	0.48	0.42	0.35	0.30	0.28
Condensing boiler (yes/no)		no							
Combination boiler for hot water and heating (yes/no)		no							
Solid Fuel cogeneration boiler		no							
<b>Preferred fuel</b>		Wood pellets							
Rated power	kW	8	12	15	22	25	30	34.9	38
Partial load	kW	2.4	3.5	4.4	6.4	7.3	8.7	10.1	11.4
Boiler efficiency at rated power (NCV* / GCV**)	%	92,4 / 85,1	94,0 / 86,8	94,3 / 87,1	95,0 / 87,7	95,2 / 87,9	95,4 / 88,1	95,7 / 88,4	95,3 / 87,7
Boiler efficiency at partial load (NCV* / GCV**)	%	91,4 / 84,2	89,4 / 82,5	90,0 / 83,2	91,5 / 84,5	92,4 / 85,3	93,8 / 86,7	95,3 / 88,0	94,9 / 87,4
Electrical power consumption at maximum output	kW	0.0600	0.0660	0.0716	0.0830	0.0900	0.1016	0.1085	0.1150
Electrical power consumption at partial output	kW	0.0460	0.0480	0.0483	0.0490	0.0524	0.0580	0.0613	0.0620
Electrical power consumption at standby	kW	0.0095	0.0095	0.0095	0.0096	0.0096	0.0096	0.0096	0.1010
EU energy label		A+	A+	A+	A+	A+	A+	A+	A+
Energy efficiency index – boiler		113.0	113.0	116.0	117.0	118.0	118.0	119.0	121.0
EU energy label – integration with heating circuit control		A+	A+	A+	A+	A+	A+	A+	A+
Energy efficiency index – integration with heating circuit control		117.0	117.0	120.0	121.0	122.0	122.0	123.0	125.0
Seasonal space heating energy efficiency in active mode	%	75.0	76.0	78.0	79.0	80.0	80.0	80.0	82.0
Seasonal space heating emissions – PM	mg/m <sup>3</sup> (10% O <sub>2</sub> )	<40	<40	<40	<40	<40	<40	<40	<40
Seasonal space heating emissions – OGC	mg/m <sup>3</sup> (10% O <sub>2</sub> )	<20	<20	<20	<20	<20	<20	<20	<20
Seasonal space heating emissions – CO	mg/m <sup>3</sup> (10% O <sub>2</sub> )	<500	<500	<500	<500	<500	<500	<500	<500
Seasonal space heating emissions – NOx	mg/m <sup>3</sup> (10% O <sub>2</sub> )	<200	<200	<200	<200	<200	<200	<200	<200

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# KWB Easyfire 2 CC4

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".

EF2 S / EF2 GS / EF2 V	UNIT	CC4 10 KW	CC4 12 KW	CC4 15 KW	CC4 22 KW	CC4 25 KW	CC4 30 KW	CC4 35 KW	CC4 40 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))		2.67	2.23	1.78	1.21	1.07	0.89	0.77	0.67
Value for IV (115/(11*Pr))		1.05	0.87	0.70	0.48	0.42	0.35	0.30	0.26
Condensing boiler (yes/no)		yes							
Combination boiler for hot water and heating (yes/no)		no							
Solid Fuel cogeneration boiler		no							
<b>Preferred fuel</b>		Wood pellets							
Rated power	kW	10	12	15	22	25	30	34.9	40
Partial load	kW	3.0	3.6	4.5	6.6	7.5	9.0	10.5	12.0
Boiler efficiency at rated power (NCV* / GCV**)	%	101,6 / 93,2	101,8 / 93,4	102,1 / 93,8	102,8 / 94,5	102,7 / 94,5	102,6 / 94,4	102,5 / 94,4	103,1 / 94,9
Boiler efficiency at partial load (NCV* / GCV**)	%	96,9 / 88,9	97,2 / 89,2	97,6 / 89,7	98,6 / 90,6	99,2 / 91,2	100,1 / 92,1	101,0 / 93,0	101,7 / 93,7
Electrical power consumption at maximum output	kW	0.0660	0.0708	0.0784	0.0940	0.0983	0.1039	0.1100	0.1147
Electrical power consumption at partial output	kW	0.0420	0.0425	0.0433	0.0450	0.0474	0.0506	0.0540	0.0574
Electrical power consumption at standby	kW	0.0107	0.0107	0.0107	0.0107	0.0170	0.0107	0.0107	0.0107
EU energy label		A+	A++	A++	A++	A++	A++	A++	A++
Energy efficiency index - boiler		124.0	125.0	125.0	125.0	126.0	127.0	127.0	129.0
EU energy label - integration with heating circuit control		A++	A++	A++	A++	A++	A++	A++	A++
Energy efficiency index - integration with heating circuit control		128.0	129.0	129.0	129.0	130.0	131.0	131.0	133.0
Seasonal space heating energy efficiency in active mode	%	83.0	84.0	84.0	84.0	85.0	86.0	86.0	87.0
Seasonal space heating emissions - PM	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<40	<40	<40	<40	<40	<40	<40	<40
Seasonal space heating emissions - OGC	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<20	<20	<20	<20	<20	<20	<20	<20
Seasonal space heating emissions - CO	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<500	<500	<500	<500	<500	<500	<500	<500
Seasonal space heating emissions - NOx	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<200	<200	<200	<200	<200	<200	<200	<200

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# KWB Pelletfire<sup>Plus</sup> (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					
<b>Preferred fuel</b>		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 <sup>3</sup> (10 % O <sub>2</sub> )	<40	<40	<40	<40	<40	<40
Seasonal space heating emissions - OGC	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<20	<20	<20	<20	<20	<20
Seasonal space heating emissions - CO	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<500	<500	<500	<500	<500	<500
Seasonal space heating emissions - NOx	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<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					
<b>Preferred fuel</b>		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 <sup>3</sup> (10 % O <sub>2</sub> )	<40	<40	<40	<40	<40	<40
Seasonal space heating emissions - OGC	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<20	<20	<20	<20	<20	<20
Seasonal space heating emissions - CO	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<500	<500	<500	<500	<500	<500
Seasonal space heating emissions - NOx	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<200	<200	<200	<200	<200	<200

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# KWB Pelletfire<sup>Plus</sup>

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 S   MF2 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					
<b>Preferred fuel</b>		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 <sup>3</sup> (10 % O <sub>2</sub> )	<40	<40	<40	<40	<40	<40
Seasonal space heating emissions - OGC	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<20	<20	<20	<20	<20	<20
Seasonal space heating emissions - CO	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<500	<500	<500	<500	<500	<500
Seasonal space heating emissions - NOx	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<200	<200	<200	<200	<200	<200

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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.  
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						
<b>Preferred fuel</b>		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 (NCV* / GCV**)	%	93,0 / 83,0	93,6 / 83,9	93,8 / 84,1	94,2 / 84,7	94,0 / 83,7	93,9 / 83,6	93,8 / 83,5
Boiler efficiency at partial load (NCV* / GCV**)	%	90,2 / 80,7	91,6 / 82,3	92,0 / 82,8	93,0 / 83,8	92,6 / 83,0	92,6 / 82,9	92,4 / 82,5
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 <sup>3</sup> (10 % O <sub>2</sub> )	<40	<40	<40	<40	<40	<40	<40
Seasonal space heating emissions - OGC	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<20	<20	<20	<20	<20	<20	<20
Seasonal space heating emissions - CO	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<500	<500	<500	<500	<500	<500	<500
Seasonal space heating emissions - NOx	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<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						
<b>Preferred fuel</b>		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 (NCV* / GCV**)	%	93,8 / 83,4	93,7 / 83,3	93,6 / 83,1	93,8 / 83,4	93,9 / 83,5	94,0 / 83,7	
Boiler efficiency at partial load (NCV* / GCV**)	%	92,3 / 82,3	92,3 / 82,2	92,1 / 81,8	93,3 / 82,9	93,7 / 83,3	94,4 / 83,9	
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 <sup>3</sup> (10 % O <sub>2</sub> )	<40	<40	<40	<40	<40	<40	
Seasonal space heating emissions - OGC	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<20	<20	<20	<20	<20	<20	
Seasonal space heating emissions - CO	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<500	<500	<500	<500	<500	<500	
Seasonal space heating emissions - NOx	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<200	<200	<200	<200	<200	<200	

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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	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				
<b>Preferred fuel</b>		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 (NCV* / GCV**)	%	94,3 / 86,8	94,4 / 86,8	94,5 / 86,8	94,6 / 86,9	94,9 / 86,9
Boiler efficiency at partial load (NCV* / GCV**)	%	93,1 / 85,3	93,3 / 85,6	93,8 / 85,8	93,8 / 86,4	94,3 / 86,7
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 <sup>3</sup> (10 % O <sub>2</sub> )	<40	<40	<40	<40	<40
Seasonal space heating emissions - OGC	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<20	<20	<20	<20	<20
Seasonal space heating emissions - CO	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<500	<500	<500	<500	<500
Seasonal space heating emissions - NOx	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<200	<200	<200	<200	<200

MF2 R D/ZI   MF2 ER 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				
<b>Preferred fuel</b>		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 (NCV* / GCV**)	%	95,0 / 86,9	95,2 / 86,9	94,9 / 86,8	94,7 / 86,8	94,5 / 86,7
Boiler efficiency at partial load (NCV* / GCV**)	%	94,5 / 86,9	95,0 / 87,5	94,7 / 87,1	94,5 / 86,8	94,0 / 86,2
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		A+	-	-	-	-
Energy efficiency index - boiler		120,0	-	-	-	-
EU energy label - integration with heating circuit control		A+	-	-	-	-
Energy efficiency index - integration with heating circuit control		124,0	-	-	-	-
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 <sup>3</sup> (10 % O <sub>2</sub> )	<40	<40	<40	<40	<40
Seasonal space heating emissions - OGC	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<20	<20	<20	<20	<20
Seasonal space heating emissions - CO	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<500	<500	<500	<500	<500
Seasonal space heating emissions - NOx	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<200	<200	<200	<200	<200

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# KWB Powerfire

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".

TDS	UNIT	TDS 150 KW	TDS 240 KW	TDS 300 KW
Stoking mode (manual/automatic)		automatic		
Share of partial load in relation to nominal load (30%/50%)	%	30		<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		
Condensing boiler (yes/no)		no		
Combination boiler for hot water and heating (yes/no)		no		
Solid Fuel cogeneration boiler		no		
<b>Preferred fuel</b>		Wood chips		
Rated power	kW	150	245	300
Partial load	kW	45.0	73.5	73.5
Boiler efficiency at rated power (NCV* / GCV**)	%	93,2 / 86,8	93,8 / 87,1	94,4 / 87,7
Boiler efficiency at partial load (NCV* / GCV**)	%	92,1 / 85,7	93,4 / 86,8	93,4 / 86,8
Electrical power consumption at maximum output	kW	0.2700	0.4510	0.4570
Electrical power consumption at partial output	kW	0.1900	0.3630	0.3630
Electrical power consumption at standby	kW	0.0200	0.0290	0.0290
Seasonal space heating energy efficiency in active mode	%	77.0	77.0	77.0
Seasonal space heating emissions - PM	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<40	<40	<40
Seasonal space heating emissions - OGC	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<20	<20	<20
Seasonal space heating emissions - CO	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<500	<500	<500
Seasonal space heating emissions - NOx	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<200	<200	<200
<b>Other suitable fuel</b>		Wood pellets		
Rated power	kW	150	245	300
Partial load	kW	45.0	73.5	73.5
Boiler efficiency at rated power (NCV* / GCV**)	%	93.2	93.8	94.4
Boiler efficiency at partial load (NCV* / GCV**)	%	92.1	93.4	93.4
Electrical power consumption at maximum output	kW	0.1820	0.3550	0.3660
Electrical power consumption at partial output	kW	0.1100	0.2680	0.2680
Electrical power consumption at standby	kW	0.0200	0.0290	0.0290
Seasonal space heating energy efficiency in active mode	%	80.0	81.0	81.0
Seasonal space heating emissions - PM	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<40	<40	<40
Seasonal space heating emissions - OGC	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<20	<20	<20
Seasonal space heating emissions - CO	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<500	<500	<500
Seasonal space heating emissions - NOx	mg/m <sup>3</sup> (10 % O <sub>2</sub> )	<200	<200	<200

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