

**DATASHEET**LIN-KA® Energy A/S
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LIN-KA® HE Boiler 200 - 3000

LIN-KA® TYPE		200	400	600	800	1000	1500	2000	3000
BOILER DATA									
DESIGN DATA									
Nom. Heating output	MBtu	0,7	1,4	2,1	2,7	3,4	5,1	6,8	10,2
Standard design pressure	PSI	58	58	58	58	58	58	58	58
Standard design temperature	°F	230	230	230	230	230	230	230	230
CE-marked	°F	248	248	248	248	248	248	248	248
Max. flow temperature	°F	230	230	230	230	230	230	230	230

DIMENSIONS									
Volume	gallon	423	713	819	1083	1268	1506	1823	2298
Weight	lb	7500	10200	11300	13100	13500	20900	22800	26800
Length	inch	105	115	117	123	127	135	143	158
Width	inch	60	69	75	85	89	96	106	118
Height	inch	68	76	86	96	97	108	117	129

OTHERS									
Flue gas temperature	°F	Depends on heat output, but normally between 302 - 338°F							
Flue gas amount	Nm ³ /h	400	800	1150	1550	1950	2900	3850	5750
Diameter flue gas outlet	inch	6	10	10	14	14	14	14	19
Height flue gas outlet	inch	7	7	7	7	7	7	7	7
Numbers of shoot valves	pcs.	2	3	4	5	8	10	12	16
Flow and return flanges	DN	65	80	80	100	100	125	125	150
Safety valve	DN	50	50	50	50	50	2 x 40	2 x 50	2 x 50
Inspection door	DN	500	500	500	500	500	500	500	500
Emission levels	mg/Nm ³	Depends of local emission levels, whether cyclone, filter etc. is needed							
Diameter chimney stack	inch	6	8	8	10	10	12	14	18

LIN-KA® TYPE		200	400	600	800	1000	1500	2000	3000
BIOMASS TYPES according to CEN/TS 14961:2005									
STRAW									
Moisture	Class	M16	M16	M16	M16	M16	M16	M16	M16
Dimensions	Class	P4	P4	P4	P4	P4	P4	P4	P4
Density	Class	BD150	BD150	BD150	BD150	BD150	BD150	BD150	BD150
Ash	Class	A05	A05	A05	A05	A05	A05	A05	A05
Fuel consumption ¹⁾	lb/h	155	305	455	605	760	1135	1515	2270
Min. return temperature	°F	Min. 176°F, and regulated by shunt arrangement to keep $\Delta t < 86^\circ\text{F}$							
Mass flow	lb/h	1450	2810	4130	5390	6730	9320	13830	21410
Pressure drop - flue gas	PSI	0,09	0,09	0,09	0,09	0,09	0,10	0,10	0,12
Min. efficiency ¹⁾	%	81	81	81	81	81	81	81	82
Main fuse	Amp.	25	35	35	50	63	63	80	100
In at max. load	Amp.	18	21	26	39	46	50	62	72

WOOD PELLETS									
Moisture	Class	M10	M10	M10	M10	M10	M10	M10	M10
Dimensions	Class	D08	D08	D08	D08	D08	D08	D08	D08
Durability	Class	DU95.0	DU95.0	DU95.0	DU95.0	DU95.0	DU95.0	DU95.0	DU95.0
Ash	Class	A1.5	A1.5	A1.5	A1.5	A1.5	A1.5	A1.5	A1.5
Fuel consumption ¹⁾	lb/h	130	255	380	505	635	950	1265	1895
Min. return temperature	°F	Min. 158°F, and regulated by shunt arrangement to keep $\Delta t < 86^\circ\text{F}$							
Mass flow	lb/h	1365	2600	3965	5065	6325	9700	12995	19425
Pressure drop - flue gas	PSI	0,08	0,08	0,08	0,08	0,08	0,09	0,10	0,11
Min. efficiency ¹⁾	%	83	83	83	83	83	83	83	83
Main fuse	Amp.	20	25	25	35	50	50	63	100
In at max. load	Amp.	14	16	19	23	38	38	42	72

WOOD CHIPS									
Moisture	Class	M40	M40	M40	M40	M40	M40	M40	M40
Dimensions	Class	P45	P45	P45	P45	P45	P45	P45	P45
Ash	Class	A1.5	A1.5	A1.5	A1.5	A1.5	A1.5	A1.5	A1.5
Fuel consumption ¹⁾	lb/h	205	410	610	815	1015	1525	2035	3050
Min. return temperature	°F	Min. 194°F, and regulated by shunt arrangement to keep $\Delta t < 86^\circ\text{F}$							
Mass flow	lb/h	1500	2895	4315	5520	6910	10665	14225	21355
Pressure drop	PSI	0,09	0,09	0,09	0,09	0,09	0,10	0,12	0,13
Min. efficiency ¹⁾	%	76	76	76	76	77	77	77	77
Main fuse	Amp.	35	35	35	40	63	63	80	125
In at max. load	Amp.	22	24	27	31	46	46	65	80

¹⁾ Flue gas temperature 320°F and convectional loss 1,5%