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Lopper Kesselbau GmbH

**DRUMMER - TECHNICAL DATA**

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**Dimensions (units in Millimeters)**

Typ	A	B	C	D	E	F	G	H	L	M	N	P	R	S	T	U	V	W	X
15	1270	830	1150	790	400	960	400	200	5/4"	730	350	560	110	300	800	880	500	730	1330
25	1270	830	1150	790	400	960	400	200	5/4"	730	350	560	110	300	800	880	500	730	1330
35	1300	850	1400	1010	400	1200	400	200	5/4"	730	350	560	110	300	800	1115	500	730	1580
45	1400	850	1400	1010	400	1200	400	200	5/4"	730	400	570	110	300	800	1090	540	730	1580
65	1500	850	1400	1010	400	1200	400	200	5/4"	730	400	560	110	300	800	1060	530	730	1580
40	1300	1400	1160	790	400	960	400	200	5/4"	1280	350	560	110	300	980	880	500	1285	1340
50	1350	1400	1400	1010	400	1200	400	200	5/4"	1280	350	560	110	300	980	1115	500	1285	1580
70	1450	1400	1400	1010	400	1200	400	200	1 1/2"	1280	400	570	110	300	1110	1085	550	1285	1580
90	1540	1480	1400	1010	400	1200	400	200	1 1/2"	1280	400	560	110	300	1200	1050	600	1285	1580
120	1730	1650	1580	1270	340	1370	500	300	2"	1300	500	620	250	400	1520	1120	650	1440	1780
180	1970	1650	1580	1270	340	1370	520	300	2"	1300	500	620	250	400	1530	1120	750	1440	1780
250	2400	1680	1580	1270	340	1370	520	300	2"	1300	500	600	250	370	1530	1120	950	1440	1780
350	2810	1680	1580	1270	420	1310	520	300	3"	1300	500	600	250	370	1530	1120	950	1440	1780
500	2870	1740	1920	1270	440	1985	600	300	4"	1430	500	600	250	370	1530	1120	1010	1440	2150
750	3200	1740	2500	1270	500	2130	500	300	4"	1430	500	600	250	420	1530	1350	950	1270	2700
1000	3800	1740	3000	1570	500	2830	500	300	4"	1430	500	600	250	420	1530	1350	1000	1270	3200

- |  |  |   |
|--|--|---|
| A = Total depth  | N = Wood loading door height                               | 1 = Wood loading door                       |
| B = Total width  | P = Height of blower                                       | 2 = Ash door                                |
| C = Height (without exhaust gas blower)                      | R = Required clearance from ceiling                        | 3 = Cleaning door                           |
| D = Wood loading door height from floor (plumb/level boiler) | S = Distance from center of blower to vent connector       | 4 = Hydronic supply water                   |
| E = Return water connection height                           | T = Smallest handling dimension without jacket = and doors | 5 = Hydronic return water                   |
| F = Supply water connection height                           | U = Height of wood loading opening (sloped boiler)         | 6 = Lifting hooks                           |
| G = Back wall of boiler to vertical centerline of blower     | V = Wood loading door height (sloped boiler)               | 7 = thermal safety relief                   |
| H = Smoke pipe diameter                                      | W = Wood loading door width (sloped boiler)                | 10 = thermal safety relief connection       |
| L = Nominal diameter - hydronic supply and return piping     | X = Height of center of flue gas pipe connector from floor | 12 = Sensor well for exhaust gas thermostat |
| M = Wood loading door width (plumb/level boiler)             |  | 13 = Exhaust gas blower                     |
|  |  | 15 = Air separator                          |
|  |  | 16 = Drain                                  |
|  |  | 17 = Thermal safety Hx return               |

Technical Data	Drummer Model																			
	15	25	35	45	65	40	50	70	90	120	180	250	350	500	750	1000				
General operating data	Minimum thermal capacity	13	23	30	40	55	35	42	60	80	100	140	200	250	380	580	600			kW
	Maximum thermal capacity	18	36	42	61	68	49	58	83	102	125	180	250	350	550	780	800			kW
	Mid-range thermal capacity	15	28	38	49	60	45	49	69	90	120	150	230	320	500	750	800			kW
	Maximum allowable pressure	3	3	3	3	3	3	3	3	3	2,5	2,5	2,5	2,5	3	3	3			bar
	Maximum allowable temperature	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95			°C
	Minimum return water temperature	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55			°C
	Water-side pressure drop at rated capacity and delta T = 20 deg C	0,13	0,15	0,17	0,27	0,28	0,18	0,26	0,5	0,55	0,7	0,8	1,4	1,6	2,4	3,2	4,9			kPa
	Minimum water flow for thermal safety relief Hx	1200	1300	1500	1750	2000	1500	1800	2000	2500	4000	5000	-	-	-	-	-			kg/h
	Maximum water flow Q	1,8	2,5	3,0	4,3	5,8	3,5	4,2	6,2	7,5	11,0	12,5	21,0	23,0	24,0	33,5	35,0			m³/h
	Combustion chamber depth	58	58	58	58	58	114	114	114	114	127	127	127	127	127	127	127			cm
Boiler water content	90	90	115	150	160	135	205	240	260	410	480	680	770	890	1000	1200			l	
Load data at rated capacity	Exhaust gas temperature based on 15° room temperature and 80° boiler temperature															180-230			°C	
	CO <sub>2</sub> concentration (carbon dioxide)															13-16			%	
	CO concentration (carbon monoxide)															100-500			ppm	
	NO <sub>x</sub> concentration (nitrogen oxide)															68-81			ppm	
	Particulate emissions based on 12% CO <sub>2</sub>															10-40			mg/m³	
Contents	Boiler thermal efficiency															88-90			%	
	Jacket radiation loss															1-17			%	
	Maximum logwood length	50	50	50	50	50	100	100	100	100	120	120	120	120	120	120	120			cm
	Wood loading chamber volume	140	140	180	210	250	260	360	410	500	700	930	1400	1800	2200	2800	3400			l
	Loading capacity - hardwood with 20% moisture	55	55	72	84	100	105	140	170	190	300	420	550	710	920	1180	1430			kg
	Loading capacity - softwood with 20% moisture	36	36	48	56	70	70	95	110	120	200	280	370	480	620	790	950			kg
	Energy content with hardwood	225	225	295	345	400	430	570	690	750	1200	1700	2250	3100	3750	4780	5790			kWh
	Burn time with hardwood	8,0	6,5	6,5	6,0	6,0	7,5	9,0	8,0	8	8,0	9,0	8,0	8,0	6,5	6,2	7,2			h
	Energy content with softwood	160	160	215	250	295	315	420	500	500	880	1250	1650	2150	2750	3620	4300			kWh
	Burn time with softwood	6,5	4,5	4,5	4,5	5,0	5,5	6,5	5,5	5,7	5,5	6,0	5,5	5,5	4,8	4,7	5,4			h
Chimney	Exhaust gas mass flow	0,02	0,022	0,027	0,035	0,05	0,032	0,035	0,05	0,07	0,08	0,11	0,15	0,21	0,30	0,45	0,60			kg/s
	Recommended chimney cross-section	18	18	18	20	20	20	20	22	22	25	25	30	30	30	30	30			cm Ø
	Recommended chimney height	7	7	8	8	8	8	8	8	10	10	10	12	13	15	16	17			m
Thermal storage system	Recommended thermal storage volume	1000	1500	2000	3000	4000	3000	4000	5000	7000	8000	9000	12000	15000	20000	30000	40000			l
	Weight with 10 mm thick steel-wood storage chamber	805	805	932	1060	1150	1195	1360	1534	1623										kg
	Weight with 20 mm thick steel-wood storage chamber	941	941	1108	1200	1290	1395	1627	1823	1980	2200	2340	3975	4650	5000	7000	9500			kg

Technical specifications subject to change without notice!