

Steel boiler with cylindrical heat exchanger, fired with wood logs, briquettes, coal



DESCRIPTION

- ✓ Steel boiler fired with wood logs or coal, with E -type cylindrical heat exchanger with smoke tubes, oval burning chamber;
- ✓ Boiler function with fan and control panel

ON REQUEST:

- Flange for mounting Biofire -biomass feeding system, on left or right side of the boiler;
- Boiler door with flange for automatic pellet burner;
- When carbon is used, we recommend a special construction "Hard Carbon";
- Automatic ash extraction system
- Internal coil for overheating protection;
- BY-PASS kit for constant temperature on boiler's water return at 60°C;
- Accumulator tanks, filling lines, pressure reducer, three sources boilers;
- Overheating protection kits.

Type		MCL 70	MCL 80	MCL 90	MCL 100	MCL 120	MCL 150	MCL 180
Power	kW	81	93	104	116	139	174	208
	kcal/h	70.000	80.000	90.000	100.000	120.000	150.000	180.000
Boiler dimensions LxWxH	cm	123x91x172	137x91x172	147x91x172	157x91x172	172x91x172	196x91x172	221x91x172
Heat exchanger diameter	mm	461	461	461	461	461	461	461
Chimney diameter	mm	245	245	245	245	295	295	295
Feeding door dimensions	mm	600x360	600x360	600x360	600x360	600x360	600x360	600x360
Burning chamber depth	mm	700	800	900	1000	1150	1400	1600
Burning chamber volume	lit	365	425	488	534	609	710	860
Maximum wood length	mm	700	800	900	1000	1150	1400	1600
Water content	lit	225	260	290	330	360	420	480
Fan RV-05	m ³ /h	400	400	400	400	400	400	400
Working temperature	°C	70/90	70/90	70/90	70/90	70/90	70/90	70/90
Maximum temperature	°C	95	95	95	95	95	95	95
Minimum return temperature	°C	60	60	60	60	60	60	60
Exhaust gas temperature	°C	160-170	160-170	160-170	160-170	160-170	160-170	160-170
Working pressure	bar	2,5	2,5	2,5	2,5	2,5	2,5	2,5
Maximum pressure	bar	3	3	3	3	3	3	3
Recommended draught	Pa	18-20	18-20	18-20	18-20	18-20	18-20	18-20
Inlet /outlet connections	inch	2	2	2	2½	2½	2½	2½
Safety kit	pcs.	2x¾"	2x¾"	2x¾"	2x1"	2x1"	2x1"	2x1"
Open expansion tank*	lit	150	150	150	150	200	200	200
Closed expansion tank*	lit	200	200	250	300	360	400	460
Heated area	m ²	320	320	380	480	580	680	780
Efficiency	%	75	75	75	75	75	75	75
Average fuel consumption	kg/h	9-15	12-18	15-20	17-24	20-27	23-30	25-34
Autonomy	h	4-6	4-6	4-6	4-6	4-6	4-6	4-6
Weight	kg	630	675	740	800	880	990	1220

Note:

*Recommended expansion tank, not included in price.

1. Version MCL-F with flange for mounting a biomass furnace has a price with 5% higher;
2. Hard Carbon version price is 10% higher;
3. Overheating protection coil (DN16, DN20, DN25 depending the boiler size) has a price with 12% higher.

In price are included:

- Boiler body;
- Insulation and metallic jackets;
- Turbulators;
- Ash bin;
- Cleaning tools;
- Safety kit 3 bar
- Drain valve
- Fan
- Control panel MCL

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Type		MCL 200	MCL 250	MCL 300	MCL 350	MCL 400	MCL 450
Power	kW	232	291	349	406	465	522
	kcal/h	200.000	250.000	300.000	350.000	400.000	450.000
Boiler dimensions LxWxH	cm	181x110x216	206x110x216	235x110x216	235x110x216	260x110x216	260x110x216
Heat exchanger diameter	mm	580	580	580	580	580	580
Chimney diameter	mm	345	345	395	395	395	395
Feeding door dimensions	mm	500x810	500x810	500x810	500x810	500x810	500x810
Burning chamber depth	mm	900	1100	1300	1500	1700	1700
Burning chamber volume	lit	890	1070	1250	1435	1620	1620
Maximum wood length	mm	900	1100	1300	1500	1700	1700
Water content	lit	620	720	820	920	1020	1100
Working temperature	°C	60/90	60/90	60/90	60/90	60/90	60/90
Maximum temperature	°C	95	95	95	95	95	95
Minimum return temperature	°C	60	60	60	60	60	60
Working pressure	bar	3	3	3	3	3	3
Maximum pressure	bar	5	5	5	5	5	5
Recommended draught	Pa	18	18	20	20	22	22
Inlet /outlet connections	inch	3	3	3	4	4	4
Safety kit	buc.	3x1"	3x1"	3x1"	4x1"	4x1"	4x1"
Open expansion tank*	lit	500	600	700	800	900	1000
Closed expansion tank*	lit	300	300	400	400	500	500
Heated area	m ²	900-950	1000-1100	1100-1200	1200-1300	1300-1400	1400-1600
Efficiency	%	78	78	78	78	78	78
Average fuel consumption	kg/h	40-60	60-80	75-100	100-120	120-150	140-180
Autonomy	tip	PROFI 220V					
Weight	kg	1420	1600	2130	2160	2200	2650

Note:

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Type		MCL 500	MCL 600	MCL 700	MCL 800	MCL 900	MCL 1000
Power	<i>kW</i>	581	698	814	930	1.046	1.162
	<i>kcal/h</i>	500.000	600.000	700.000	800.000	900.000	1.000.000
Boiler dimensions LxWxH	<i>cm</i>	230x155x240	255x155x240	280x155x240	305x155x240	285x164x280	315x164x280
Heat exchanger diameter	<i>mm</i>	670	670	670	670	670	670
Chimney diameter	<i>mm</i>	485	485	485	590	590	590
Feeding door dimensions	<i>mm</i>	1230x520	1230x520	1230x520	1230x520	1600x650	1600x650
Burning chamber depth	<i>mm</i>	1.300	1.550	1.800	2.000	2.250	2.500
Burning chamber volume	<i>lit</i>	3.380	4.560	5.680	6.250	6.800	7.600
Maximum wood length	<i>mm</i>	1.300	1.550	1.800	2.000	2.250	2.500
Water content	<i>lit</i>	1.420	1.860	2.440	2.650	2.890	3.200
Working temperature	<i>°C</i>	60/90	60/90	60/90	60/90	60/90	60/90
Maximum temperature	<i>°C</i>	95	95	95	95	95	95
Minimum return temperature	<i>°C</i>	60	60	60	60	60	60
Working pressure	<i>bar</i>	4	4	4	4	4	4
Maximum pressure	<i>bar</i>	5	5	5	5	5	5
Recommended draught	<i>Pa</i>	30	30	30	30	30	30
Inlet /outlet connections	<i>inch</i>	6	6	6	6	6	6
Safety kit	<i>buc.</i>	4x1"	4x1"	6x1"	6x1"	6x1"	6x1"
Efficiency	<i>%</i>	78	78	78	78	78	78
Average fuel consumption	<i>kg/h</i>	140-165	178-205	215-230	240-275	265-310	295-345
Control panel	<i>type</i>	PROFI 220V					
Weight	<i>kg</i>	3000	3400	4000	4800	5500	5850

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