

# VIADRUS

Power of heating

## Lignator

### Eco-friendly cast-iron wood boiler

Lignator is a modern and eco-friendly cast-iron down burning wood boiler which meets the very strict Class 3 emission conditions of EN 303-5 standard. The boiler is determined for hot-water forced circulation heating systems only. The security device against overheating is obliged for closed heating systems. It is very easy to operate.

#### Advantages:

- high efficiency up to 89,6%
- ecological operation
- firewood humidity up to 20%
- five years boiler block guarantee
- high service life of the Czech made cast-iron exchanger
- water-cooled fixed grates
- easy operation and maintenance
- threaded flanges for easy installation
- possibility of additional output change

#### Fuel / fuel humidity:

- firewood, up to Ø 100 mm / <20%

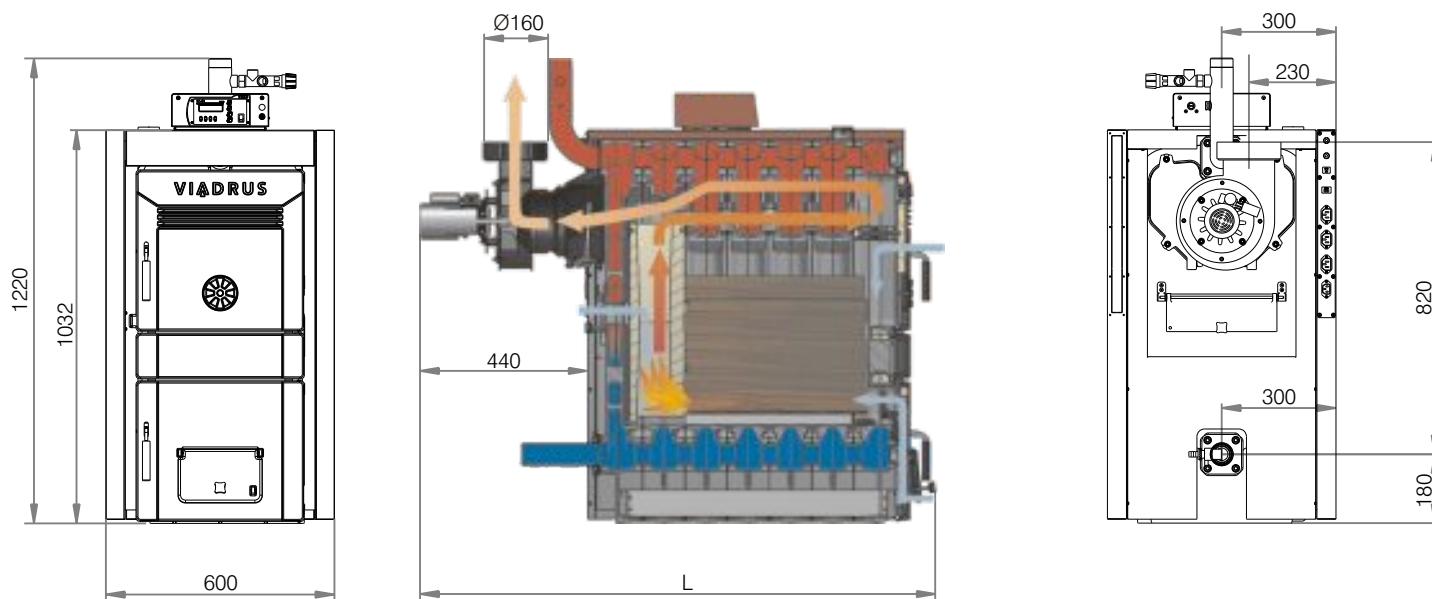
#### Boiler output (according to section number):

- 13,5~34 kW



## Technical parameters

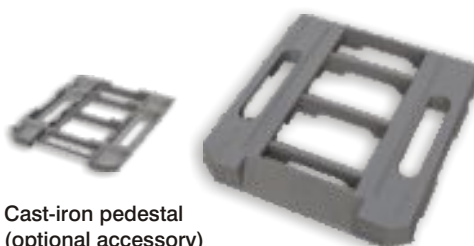
Section number	pcs	5	6	7	8	9	10
Boiler class according to EN 303 - 5	-				3		
Rated output	kW	13,5	17,5	22,5	25,5	30	34
Fuel consumption at rated output	kg/hour	3,74	4,68	6,04	6,83	8,2	9,28
Efficiency	%	86,6	89,6	89,4	87,7	87,1	87,9
Flue gases temperature	°C	<160					
Burning time at one full load	hours	2					
Dimension - height x width	mm	1220 x 600					
- depth L	mm	1133	1244	1355	1466	1577	1688
Weight	kg	369	421	472	524	576	628
Fire chamber depth	mm	260	360	480	580	680	780
Recommended firewood log length	mm	250	360	470	580	680	780
Stokehole size	mm	310 x 236					
Chimney connection diameter	mm	160					
Chimney draught	Pa	>15	>16	>15	>16	>17	>16
Heating and return water connection	-	DN 50					
Water working overpressure	kPa	50~400					
Water testing overpressure	kPa	800					
Recommended water working temperature	°C	60~85					
Return water min. temperature	°C	60					
Water volume	l	35	44,7	50,4	56,1	61,8	67,5
Safety after-cooling exchanger cooling water temperature	°C	5~20					
Safety after-cooling exchanger cooling water overpressure	kPa	200~600					
Noise level	dB	<65 dB (A)					



Operating panel of ST 81 control unit



Cast-iron pedestal (optional accessory)



Your dealer

