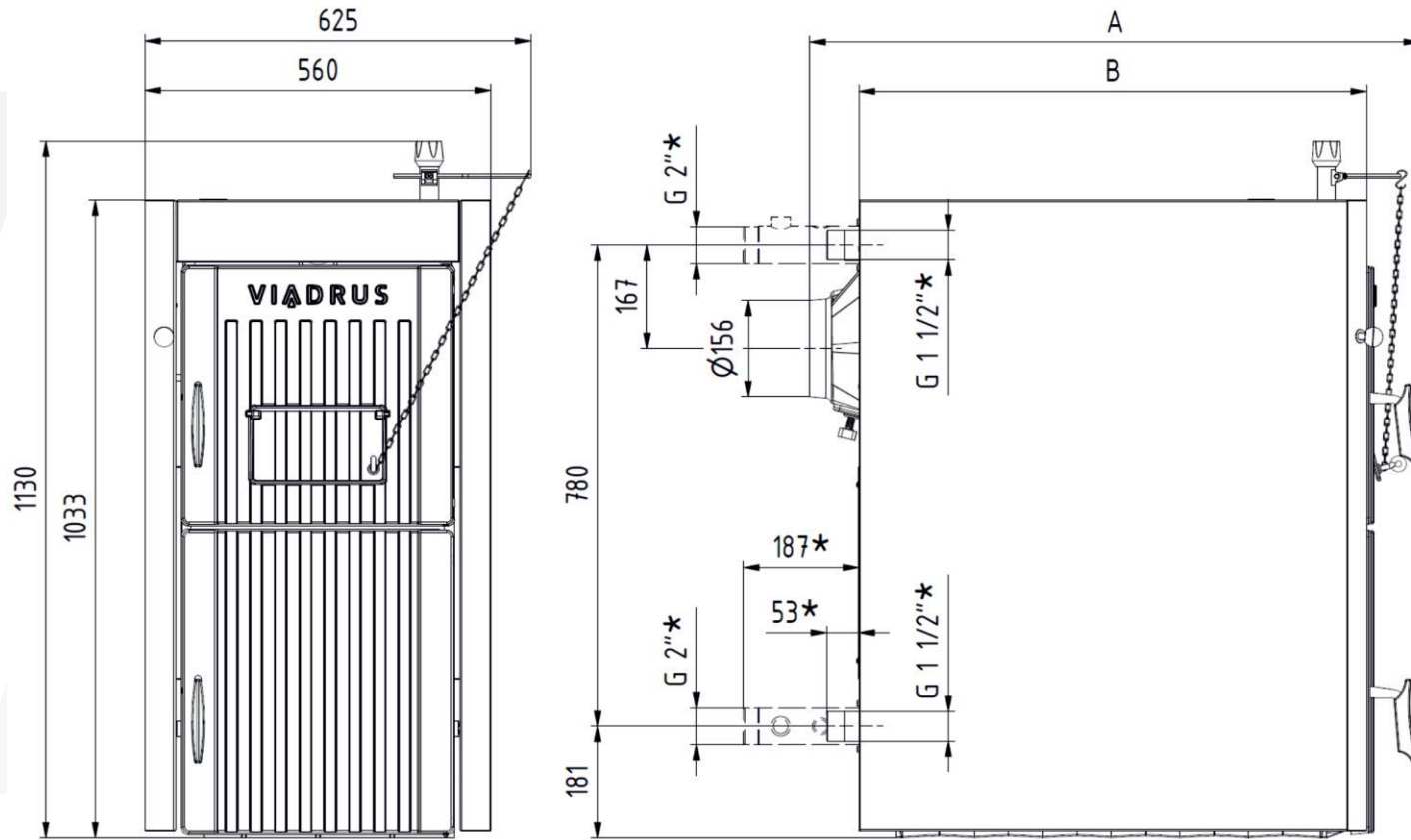




VIADRUS U 22 Economy – Technical drawing



VIADRUS

VIADRUS U22 Economy

CAST-IRON GASIFYING FIREWOOD BOILER | MANUAL FUEL LOADING



VIABURN



THE BEST
PRICE-PERFORMANCE RATIO

The manufacturer reserves the right to make changes of parameters or appearance and is not responsible for incidental misprints.

VIADRUS

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Meets demanding conditions of the German emission standard BImSchV Stufe 2

VIADRUS U22 Economy

Cast-iron gasifying boiler for the combustion of lump wood

The VIADRUS U22 Economy is a cast-iron gasifying solid fuel boiler with manual fuel loading serving for the ecological combustion of lump wood. The design of the combustion chamber enables fuel combustion by means of natural flue-gases withdrawal without support of a fan, in warm-water systems with natural and forced circulation of heating medium. The Hercules U22 Economy can be beneficially used instead of old solid fuel boilers in old-type "gravitational" heating systems. The boiler reaches emission class 5 according to ČSN EN 303-5 and meets the ECODESIGN conditions.

Power depending on a number of sections:
16-21-25-30-34-38-41 kW



Advantages:

- 10 years warranty for the cast-iron heat-exchanger
- efficiency up to 91 %
- meets emission class 5 according to ČSN EN 303-5
- meets the ECODESIGN conditions
- meets demanding conditions of the German emission standard BImSchV Stufe 2
- low fuel consumption
- simple manipulation and maintenance
- threaded flanges for simple mounting
- water-tube massive grates
- quick warming of the flue channel
- possibility of operation independent on electric energy (without a forced withdrawal of flue gases and without a circulating pump, excepting systems with a storage tank)
- patented system of the combustion chamber ViaBurn™



Refractory shaped bricks are made of fireproof concrete mix with resistance to high temperature (up to 1500 °C) and increased resistance to alkaline corrosion.

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Technical specifications

Boiler size - type	•	16	21	25	30	34	38	41
Energy efficiency class	•	A+						
Maximum rated power	kW	16	21	25	30	34	38	41
Boiler class according to ČSN EN 303-5	•	5						
Maximum efficiency	%	89,1	89	89	88,7	91	90,4	90,3
Combustion chamber depth	mm	280	370	370	480	590	590	590
Recommended length of wood chocks	mm	350			350-500			
Combustion chamber capacity	dm ³	32	39	41	51	63	65	67
Indicative fuel consumption at the nominal power	kg/h	3,9	5,1	5,9	7,2	8,5	9,4	10,2
Flue gases temperature at the nominal power	°C	140-190	140-190	140-190	140-190	140-190	140-190	140-190
Dimensions - height × width	mm	1130 x 625						
- depth (A)	mm	890	1000	1000	1110	1220	1220	1220
Weight	kg	348	410	410	472	534	534	534
Feed port sizes	mm	310x236						
Min. required chimney draught	mbar	0,13	0,16	0,18	0,21	0,25	0,32	0,32
Water space capacity	l	40,5	46,5	46,5	52	58	58	58
Recommended minimum output water temperature	°C	70						
Minimum input water temperature	°C	50						
Heating and return water connections	•	2" or 1 1/2" (* the size depends on the used type of the flange)						
Noise level	dB	< 65						
Chimney throat diameter Ø D	mm	156						
Maximum operation pressure	bar	4						
Minimum operation water pressure	bar	0,5						
Flue gases mass flow rate	kg/s	0,012	0,014	0,015	0,016	0,018	0,019	0,022