

The DEFRO DUO PELLET boilers have been created on the basis of the DEFRO DUO series. The main difference consists in the fuel charger and burner adjusted for trees' leaf biomass in the form of pellets. The biggest advantage of the boilers constitute advanced automatics - programmer controlling central heating, hot utility water and two other pumps as well as the mixing valve and the self-acting system: ignition, fuel charging and burner cleaning.

The additional chamber created by a stationary grate cooled by water (wall thickness: 8.8 mm) allows for temporary use of other types of fuel such as wood chips and boiler start-up in emergency cases. The boilers are equipped with a number of sensors controlling its work.

Boiler's advantages



5-year warranty for heat exchanger tightness, 2-year warranty for other elements and efficient operation of the boiler;



the exchanger has been made from certified boiler steel (P256GH type) of thickness of 6-10 mm, delivered by the following steel plants: Arcelor Mittal Poland S.A, Kraków branch and U. S. Steel Košice s.r.o.;



high thermal efficiency, up to 92%, thanks to increased heat recovery from flue gas;



self-acting fuel ignition system connected to the automatic burner cleaning system;



two combustion chambers: lower with an automatic retort burner and upper for burning wood (when charged manually);



programmer cooperating with 4 pumps (central heating and hot utility water, circulatory, on the floor, with output for a room controller), and with the possibility of controlling mixing valves;

* extra-paid option;
installed on Customer's request



GOLDEN PIPEFITTER
2009



INNOVATIVE
PRODUCT 2008



Technical specification

Items/type	Unit	15	25	35	50	75
Power range	kW	8-24	10-31	13-42	16-53	23-75
Heating area	m2	2,1	2,8	3,8	4,8	6,7
Area of heated rooms *	m2	up to 200	up to 250	up to 320	up to 480	up to 700
Single fuel charge	kg	~180		~350		~400
Optimum thermal efficiency	%	90,1-92,5				
Max. permissible work pressure	bar	1,5				
Required flue gas draught	Pa	20	25	30	35	38
Max. supply water temperature	°C	85				
Boiler weight	kg	548	609	711	897	1041
Boiler water tank capacity	l	76	99	110	122	197
Chimney intersection	cmxcm	14x14	16x16	19x19	21x21	25x25
Chimney intersection	O mm	160	180	210	230	280
Minimum chimney height	m	6		7	9	10
Width	mm	1915	1965	2115		2215
Length	mm	925	1031	1065	1283	1295
Height**	mm	1672		1739		1878
Supply and return diameter [Dn]		G1½"				G2"
Flue dimension Ø	mm	159	179	194		245
Power supply	V/Hz	~230/50				
Power consumption - boiler start-up	W	287 (272)		316 (301)		
Power consumption - boiler operation	W	97 (82)		126 (111)		

* Maximum heated area estimated for a unitary demand for heat $q=125W/m^2$.

** Height of the boiler can be additionally adjusted by means of the legs provided.
The regulation varies from 38 to 50 mm.

Fuel

stationary grate: coal, wood lumps
automatic furnace: pellet



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