



## Biomass boiler

### Data sheet

BLUEVO		40
Carrier fluid		Water
Power on furnace	kW	44,0
Nominal Power	kW	41,3
Reduced Power	kW	5,6
Thermal efficiency	%	93
Boiler class	EN 303-5:2012	5

### Construction data <sup>(1)</sup>

Dimensions	Width (L)		1.750
	Depth (P)	mm	770
	Height (H)		1.540
Fuel feeding			Extraction system through auger
Weight		kg	650
Flue diameter	(F)	φ mm	100
Outside air intake diameter	(G)	φ mm	100
Boiler body			Steel
Combustion chamber			dry chamber with double flue gas vertical exchanger
Brazier			stainless steel with refractory walls
Boiler body isolation			In high-density material, infill panels in anti-corrosion epoxy powder coated steel
Hopper volume		liters	126

## Hydraulic data

Hydraulic pressure test		bar	6
Max working pressure		bar	3
Boiler water content		liters	130
SLEEVE UNI/DIN EN 10241-ST 37	delivery (A)	φ mm	DN 25 V
	return (B)		DN 25 V
Residual power heat sink flange	Inlet(C)	φ mm	DN 15
	Outlet (D)		DN 15
Security valve	Outlet (E)		DN 15
Expansion tank			Open/closed
Water pressure drop at 20 K		mBar	14,0

## Functioning features

Draft pressure		Pa	12 ± 20%
Smoke temperature		°C	113 ± 30%
Max working temperature	water	°C	90
Smoke evacuation system			Forced draft suction
Fuel flow regulation			Automatic by level switch
Combustion chamber ash exhaust system			Through removable ash drawer
Flue ash exhaust system			Gravitational on removable dust drawer
Ash tray volume		liters	10,5
Dust collection drawer volume		liters	11,6

Fuel <sup>(2)</sup>

Class to be used			PELLET : EN ISO 17225-2
Fuel consumption at a nominal power		kg/h	9,44
Fuel consumption at a reduced power		kg/h	1,21
Smoke flow at a nominal power		g/s	24,4
CO Emissions (10% of O <sub>2</sub> )			Class 5 according to EN 303-5:2012
Dusts (10% of O <sub>2</sub> )			Rewarding coefficient equal to 1,5
Environmental quality class			★★★★★

**Electrical data <sup>(3)</sup>**

Adjustement and control unit			Electronic type for the programmed control and management of combustion thorgh a flue gas temperature probe and boiler temperature probe, safety timers, shutdown due to failed ignition and various alarms. Composed of motherboard, thermoregulator, menu with online help that allows electronic management of the system with signaling of the operating status and alarm signaling
Ignition			electronic 250 W
Electrical nominal power installed		W	550
Medium nominal electric power		W	125
Nominal voltage		V	230
Nominal frequency		Hz	50
Nominal installed current		A	3,18
Energy class			A + +

**Arrangement**

Remote assistance			Through connection RS 232
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**Optional**

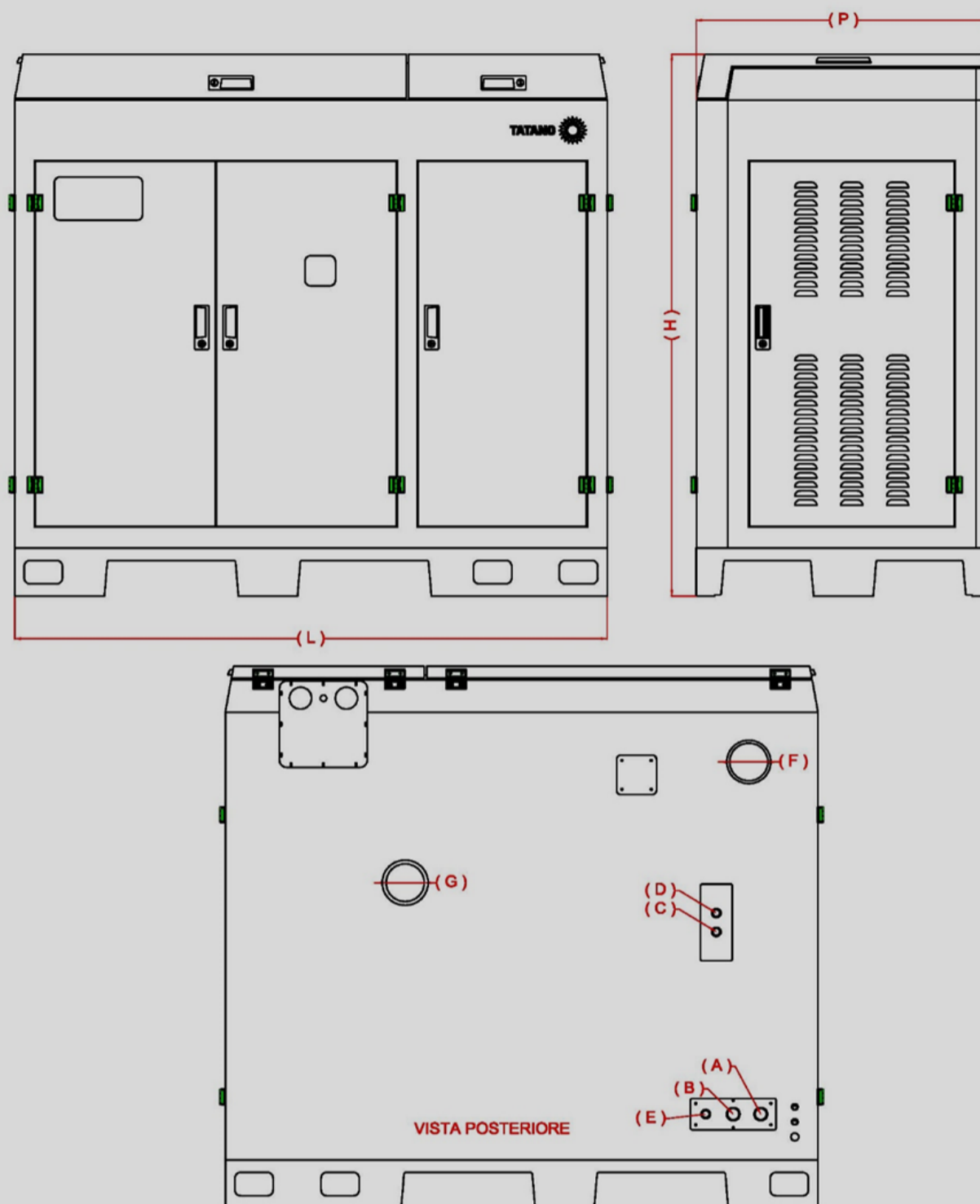
Automatic loading of the hopper			Through pneumatic suction system
Remote assistance			Software for management and control via Wi-Fi or internet module

**Standard**

Through remote control system			Through wifi module
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**Security system**

Alarm and control			Antifreeze programming
No electricity			Through boiler and smoke probes
			Manual resetting thermostat
			UPS group
			Combustion chamber temperature probe
Combustion control			Through visual and / or acoustic alarms
			Combustion chamber inspection viewer
			Differential pressure switch
Functioning error alarms			Shutdown due to ignition failure and various alarmsi
			through the secondary suction fan in emergency function
Smokes evacuation in emergency			



( 1 ) The dimensions may vary depending on the addition of optional accessories or for constructive choices.

( 2 ) Consumption and environmental emissions data may vary depending on the characteristics of the fuel used, on operating condition and on smoke treatment systems.

( 3 ) The data may vary according to the electrical components installed (motors, fans, etc.). The actual data will be reported in the plate affixed to the boiler.

The company reserves to modify dimensions and characteristics without any notice. Moreover, it declines any responsibility for transcription or printing errors.