

# Biomass Boiler

# **CARINCI**

**PELLET**

**WOOD**

 [www.carincigroup.it](http://www.carincigroup.it)



Via Felci (zona industriale - loc. Forma Cialone) • Sora (Fr)

Tel. +39 0776 812704 • Fax +39 0776 814394

## BIOMASS BOILER FUELED WITH WOOD AND PELLETS



A biomass boiler through and through, **CARNICI PRESTIGE** is a heat generator fueled both by **wood** and **pellet**.

### IT CAN BE USED:

- Using only pellets ( Machine grounded wood )
- Using only wood
- Or a combination of wood and pellets

The **Carinci Combined Technology** of the Prestige series allows you to switch from one fuel to another automatically.

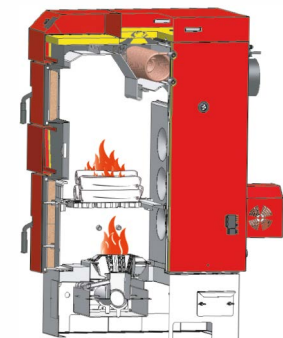
It can be loaded with wood and **programmed**. Once the wood is finished, it can continue to heat **switching to the use of pellets, automatically**.

The new **Carinci Prestige Boiler** is suitable for those who have easy access to both types of fuel, without having to choose



### TECHNICAL DATA

		PELLET			WOOD		
		MODELLO 270	MODELLO 350	MODELLO 500	MODELLO 270	MODELLO 350	MODELLO 500
Maximum operating pressure	bar	3	3	3	3	3	3
Trial pressure	bar	3	3	3	3	3	3
Fuel chamber capacity	lt	50	50	80	50	50	80
Water capacity of the boiler	lt	97	97	125	97	97	125
Bulk equipment	Kg	635	635	787	635	635	787
Measurement of the smoke duct	mm	180	180	200	180	180	200
Minimal draft	Pa	18	18	18	18	18	18
Operating temperature range from (Min -Max)	°C	55+90	55+90	55+90	55+90	55+90	55+90
thermal efficiency	max kW	27,0	34,9	49,5	27	35	50
	min kW	8,1	8,1	14,5	//	//	//
CO at 10% of O <sub>2</sub>	nominal mg/Nm <sup>3</sup>	301,1	101,1	100,8	4200	4374	4700
	reduced mg/Nm <sup>3</sup>	131,5	114,8	122,4	//	//	//
	nominal mg/Nm <sup>3</sup>	171,6	86	174	180	180	180
NOx at 10% of O <sub>2</sub>	reduced mg/Nm <sup>3</sup>	181,4	92,8	177,4	//	//	//
	nominal mg/Nm <sup>3</sup>	17,2	13,3	13,1	45	46	48
	reduced mg/Nm <sup>3</sup>	18,8	18,8	17,7	//	//	//
Polveri at 10% of O <sub>2</sub>	nominal mg/Nm <sup>3</sup>	17,9	17,0	16,3	65	67	70
	reduced mg/Nm <sup>3</sup>	22,1	17,5	18,1	//	//	//
	nominal mg/Nm <sup>3</sup>	218,2	72,2	73	3043,5	3169,6	3405,8
CO at 13% of O <sub>2</sub>	reduced mg/Nm <sup>3</sup>	131,5	114,8	122,4	//	//	//
	nominal mg/Nm <sup>3</sup>	218,2	72,2	73	3043,5	3169,6	3405,8
	reduced mg/Nm <sup>3</sup>	95,3	83,2	88,7	//	//	//
NOx at 13% of O <sub>2</sub>	nominal mg/Nm <sup>3</sup>	124,4	62,3	126,1	130,4	130,4	130,4
	reduced mg/Nm <sup>3</sup>	131,4	67,3	128,5	//	//	//
	nominal mg/Nm <sup>3</sup>	12,4	9,7	9,5	32,6	33,3	34,8
OGC at 13% of O <sub>2</sub>	reduced mg/Nm <sup>3</sup>	13,6	13,6	12,8	//	//	//
	nominal mg/Nm <sup>3</sup>	13	12,3	11,8	47,1	48,5	50,7
	reduced mg/Nm <sup>3</sup>	16	12,7	13,1	//	//	//
Thermal efficiency	nominal %	92,4	92,4	91	90,3	90,2	90
	reduced %	92,8	92,6	92	//	//	//
	pellet Kg	180	180	230	//	//	//
Tank Capacity	wood Lt	//	//	//	50	50	80
	nominal Pa	15±2	15±2	15±2	15±2	15±2	15±2
	reduced Pa	15±2	15±2	15±2	15±2	15±2	15±2
smoke temperature	nominal C°	129,4	121,8	127,5	124,6	125,5	125,5
	reduced C°	97,8	96,7	97,7	//	//	//
	thermal power loss in the boiler Pa	2000	2000	2300	2000	2000	2300



**DIMENSIONS 270 / 250 500**

WHIDT mm 1190 1340

HEIGHT mm 1560 1700

DEPTH mm 1320 1390

## MULTI-FUEL BURNER WITH FUEL SUPPLY FROM BELOW

THE INNOVATIVE CARINCI BURNER TECHNOLOGY "BOTTOM FEED" GUARANTEES CONSIDERABLE ADVANTAGES COMPARED TO TRADITIONAL STOVES WHICH ARE FED BY FUELING PELLETS DIRECTLY ON THE FLAME

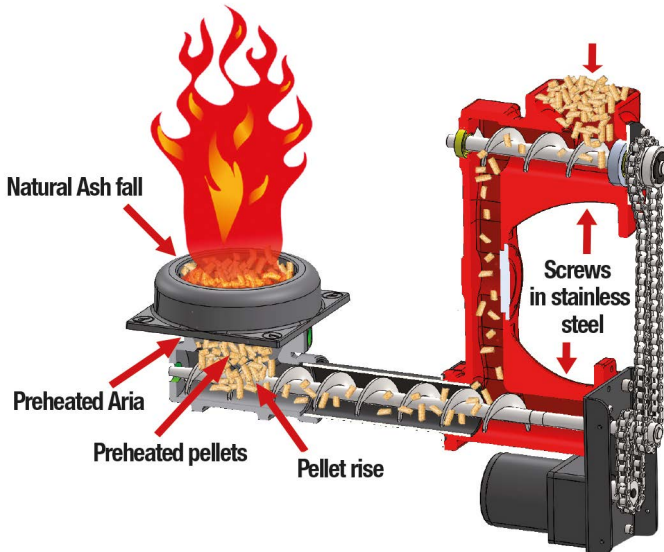
### NEW PELLET KIT

Monoblock in anti-corrosion aluminium alloy

- High reliability motor
- High power
- Extremely silent

### ADVANTAGES

- Can burn any type of wood pellet, even of low quality
- Can burn other types of biomass
- Self-levelling burner
- Correct quantity of primary air
- Secondary air
- Pre-heated fuel
- Pre-heated primary and secondary air
- Constant combustion (without fuelling directly on the flame)
- Ashes discharged naturally (without the use of fans or other mechanisms)
- Low daily maintenance of the brazier
- Double spark plug (reduced ignition time)



### AUTOMATIC INVERSION MOTOR - ANTI-LOCK - EXTREMELY SILENT

Engine safety and automatic reversal: the CARINCI boiler gearmotor is equipped with a safety control for feeding auger and reversing gear, that, upon detection of greater resistance in the transport of fuel, reverses the direction of travel automatically for about one turn, thus removing the blocked fuel and then resuming normal operation, so to avoid both the blockage of the boiler and any breakage of the fuelling system.

### STANDARD SECURITY FEATURES OF THE THE CARINCI PRESTIGE BOILER

#### BOILER BODY SAFETY

- Boiler thermostat
- Manual reset thermostat
- A heat sink

#### SAFETY BURNER

- Failed ignition safety
- Double safety

#### DOOR OPENING SECURITY

- Push-button switch

#### MOTOR SAFETY

- Automatic reversing motor safety

#### PELLET LEVEL SAFETY

- Pellet level sensor

### STANDARD "ACQUAPLUS" SYSTEM



**DOMESTIC HOT WATER**  
**365 DAYS A YEAR**

### ACCESSORIES OPTIONAL - PRESTIGE BOILER CLOSED VASE KIT - OPEN VASE KIT - IN AIL. 500 KIT

