

# Biomass Boiler **CARINCI**

**PELLET**

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## INNOVATIVE BIOMASS BOILER PELLET OPERATED AND FUELED FROM THE BOTTOM

The **Carinci Eco** is a **high performance**, compact boiler used for general heating and production of domestic hot water, combinable to any type of heating system: traditional or with puffer. The boiler body is made from a 5mm pickled sheet of carbon steel, completely insulated, with insulated cover and double closing door, thus minimizing energy dispersion. The inside is furnished with cylindrical flue gas passages, equipped in turn with the same amount of steel spring turbulators.

This innovation guarantees a simplified cleaning routine by means of a rocker system denominated “**Fast Cleaning**”, and ultimately allows the complete combustion of the flue gas, **obtaining an extremely high performance, low consumption and very low polluting emissions.**

### CARINCI ECO



COMPLETE WITH ACCESSORIES THAT ALLOW THE EQUIPMENT TO BE INSTALLED DIRECTLY TO THE SYSTEM



### CARINCI ECO COMPACT



		MODELLO 25	MODELLO 30	MODELLO 35
Introduced thermal power	kW	27,4	30	32,6
Rated Thermal Input	kW	25,27	27,62	29,97
Minimum heat output	kW	8,5	9,75	11
Fuel Flow	max Kg/h	5,4	6,0	6,5
	min Kg/h	1,8	2,1	2,4
CO measured at 13% O <sub>2</sub>	mg/Nm <sup>3</sup>	95,89	93,27	90,64
NOx measured at 13% O <sub>2</sub>	mg/Nm <sup>3</sup>	115,98	113,51	111,03
OGC 1 measured at 3% O <sub>2</sub>	mg/Nm <sup>3</sup>	2,11	2,06	2,01
Dust measured at 13% O <sub>2</sub>	mg/Nm <sup>3</sup>	9,72	9,46	9,2
Length(L)	Eco cm	68	68	68
	Eco Compact cm	128	128	128

			MODELLO 25	MODELLO 30	MODELLO 35
Height (H)	cm		140	140	140
Depth (P)	Eco cm		84	84	84
	Eco Compact cm		61	61	61
Capacity pellet tank	Lt		115	115	115
Volume water in boiler	Eco Lt		80	80	80
	Eco Compact kg		370	370	370
Weight	Eco kg		408	408	408
	Eco Compact kg		408	408	408
Performance	max %		92,35	92,17	91,98
	min %		92,82	92,68	92,53
Average draught	Pa		12	12	12
Maximum operating pressure	bar		3	3	3
Flue outlet (F)	Di		120	120	120

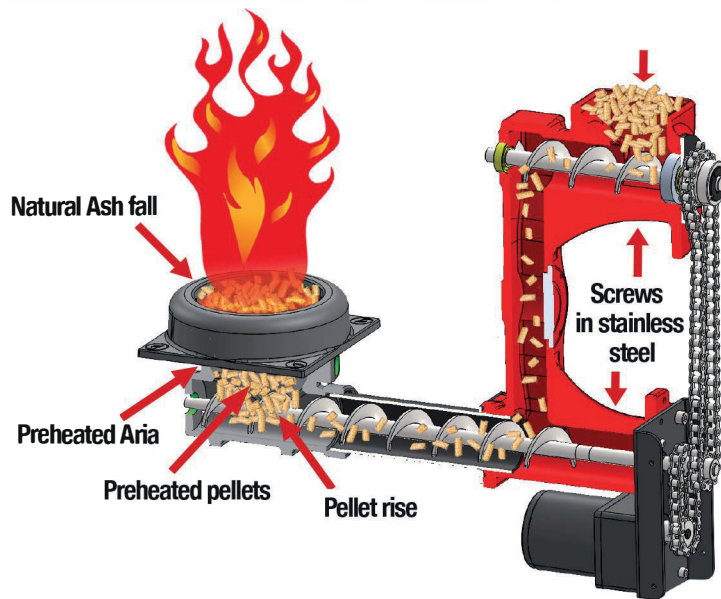
## PELLET TECHNOLOGY INNOVATIVE COMBUSTION TECHNIQUE

### MULTI-FUEL BURNER - WITH FUEL BOTTOM FEED

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



### VANTAGGI

- 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)

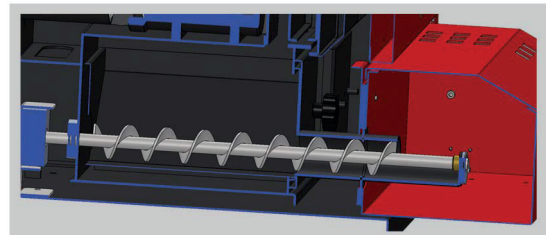
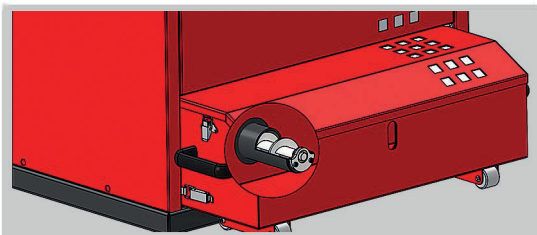


### AUTOMATIC INVERSION MOTOR - ANTI-LOCK - EXTREMELY SILENT

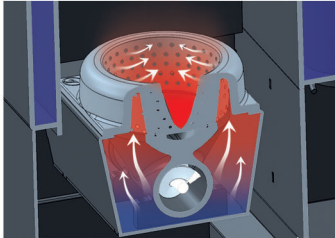
Engine safety and automatic reversal: the CARINCI boiler gearmotor is equipped with a safety control for feeding auger and reversing gear, that, upon detection of greater resistance in the transport of fuel, reverses the direction of travel automatically for about one turn, thus removing the blocked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

## ACCESSORIES KIT IS OPTIONAL ON MODELS ECO AND ECO COMPACT ASH COMPACTOR – VERY LARGE – 25 KG.

The **ash compactor kit** installed on the Carinci boiler ECO facilitates the cleaning of the combustion compartment, channelling the ashes generated to the compactor in which the level of ash can be checked at all times by means of an inspection eyelet. The compactor can be easily pulled out and emptied after many days of use.

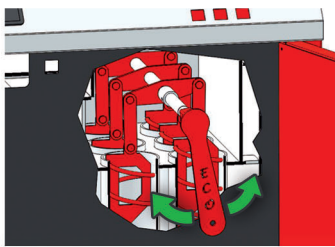


## CHARACTERISTICS OF THE CARINCI ECO BOILER



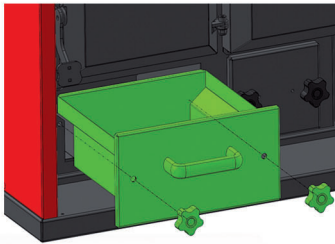
### NEW PREHEATING FUEL BURNER

The new burner of the **Carinci Eco** boiler uses the **innovative technique of fuel preheating and preheating of the combustion air**. This **innovative technique**, compared to traditional feed systems by fall, allows to obtain the maximum energy present in the fuel in the combustion phase, guaranteeing a high efficiency, low consumption and low polluting emissions.



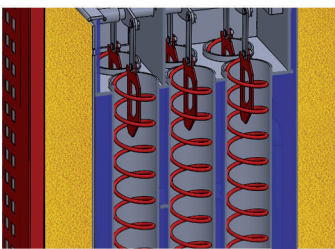
### SYSTEM "FAST CLEAN"

The boiler **CARINCI ECO** is equipped internally with **steel spring turbulators** that present an innovative easy cleaning manual system by which the utilizer can clean the heat exchangers **easily and rapidly** by moving the handle that allows the oscillation of the innovative **rocker system**. In this way the flue passage is cleaned out swiftly and without difficulty.



### ASH DRAWER

The boiler **CARINCI ECO** is equipped with a spacious drawer for the collection of ash produced from the combustion, positioned in the lower front of the burner. This item is easily pulled out and emptied at will.



### BOILER BODY AND FLUE GAS PASSAGE

The innovative boiler body is made from a **5 mm pickled sheet of carbon steel**, completely insulated by means of an isolation mat coated in aluminium to avoid heat dispersion. Two steel turbulators are inserted inside the body to allow the maximum use of the energy of the flue gas...**guaranteeing an elevated performance and very low polluting emissions**.



### 24 H "WATERPLUS" SYSTEM

The system conceived by Carinci Group allows to collect hot water even at low temperatures (**already from 40°C**) regardless that the heating system is turned on or shut off. **Furthermore, with this technology domestic hot water is available both in winter and in summer.**

**DOMESTIC HOT WATER AVAILABLE 24 HOURS A DAY**