



# MINI POWERHOUSE

## The New Generation Eco-Mini Series



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# Features



## Backburn Safety

Fire backburn is prevented by keeping the Burner feed way always empty and within constant negative pressure. A high temperature limit switch ensures safety.



## Advanced Controller system

An advanced central control system regulates the system constantly with the data provided by sensors.



## Compact Burner Unit

A lightweight and easily dismount-able burner unit provides service friendly maintenance as well as accessibility when needed.



## Adaptive Air Feed

A High capacity induced draft fan allows precise regulation of boiler capacity.



## efficient Combustion

With 2 photocells and a flue gas temperature sensor following the combustion at all times, the efficiency of the product is maximized.



## Digital Control Panel

A reliable software is driven by an advanced command interface provides strict control of the system. An optional touch screen panel with an internet module is also available.



## Tube Cleaning System

Manual handle allows turbulators to move Up and down and cleaning of smoke tubes.

An automated version is also available as an option.



## Automated Burner Cleaning System

A simple yet effective cleaning system clears the burner grate periodically.



# RETURN of INVESTMENT accelerated. The NEW Generation **Eco-Mini Series** Pellet Fired Boilers



## An affordable Pellet Boiler

Eco series boilers features vertical tubes and an externally driven manual cleaning equipment. Reliable structure of Eco series are consolidated by endurant “boiler quality steel” and guarantess you a service life of many years.

All functions can be easily accessed by a digital display on the front of the cabinet through an easy and intuitive software interface.

The compact structure of Eco series systems are extremely flexible and makes it particulary suitable for any type of installation. Eco boilers can be equipped with an external sanitary hot water, heat exchanger and also with buffer

Tanks to increase efficiency.

# What is Special about it?

The size. The new generation Eco systems are about the 2/3 of a regular boiler. Since the size is smaller, the cost is smaller too.

# How it is possible?

Everything is about the combustion gas routes. The flames are reversed after they are generated and forced to pass through newly generated flames leading to a re-burn. This process not only increases efficiency but also decreases the size of the chamber all together.

# Designed for Class 5.

\* Efficiency > **92 %**

\* Emissions < **500 mg/m<sup>3</sup> C<sub>0</sub>**

\* Dust < **40 mg/m<sup>3</sup>**.

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# Highlights on the Features of Eco Pellet System

- Full Automatic ignition,
- Manually driven tube cleaning system,
- Full Automatic cleaning of burner grates,
- Auto pellet dosage.
- External fuel hopper can be placed either sides.
- User friendly control system with digital display
- Unique Software for regulation of combustion
- Unique Software for regulation of air supply
- Service friendly design
- Flexible installation
- Optional: Touch Panel Control
- Optional: Pipe Cleaning System
- Optional: Ask extraction System



# Technical Specifications

|                         | TECHNICAL SPECIFICATION OF ECO-MINI PELLET BOILERS    |                          | Unit                        | BOILER TYPE   |               |               |             |
|-------------------------|---|--------------------------|-----------------------------|---------------|---------------|---------------|-------------|
|                         |   |                          |                             | Eco-Mini -12  | Eco-Mini -23  | Eco-Mini -40  | Eco-Mini-60 |
| CAPACITY                | Nominal Heat Output                                   | kW                       | 12                          | 23            | 40            | 60            |             |
|                         |   | kcal/h                   | 10.320                      | 19.780        | 34.400        | 51.600        |             |
|                         | Minimum Heat Output                                   | kW                       | 3,6                         | 6,9           | 12            | 18            |             |
|                         |   | kcal/h                   | 3.096                       | 5.934         | 10.320        | 15.480        |             |
|                         | Efficiency  | %                        | > 92%                       |               |               |               |             |
| OPERATING CONDITIONS    | Safety Limit Temperature                              | °C                       | 95                          |               |               |               |             |
|                         | Max. Operating Temperature                            | °C                       | 80                          |               |               |               |             |
|                         | Min. Water Return Temperature                         | °C                       | 55                          |               |               |               |             |
|                         | Operating Pressure                                    | bar                      | 3                           |               |               |               |             |
|                         | Boiler Test Pressure                                  | bar                      | 4,5                         |               |               |               |             |
|                         | Electrical Connection                                 | -                        | 230 V <sub>ac</sub> , 50 Hz |               |               |               |             |
|                         | Recommended Fuel Types                                | -                        | Ø6-8 mm high quality pellet |               |               |               |             |
| MAIN DIMENSIONS         | W <sub>1</sub> Cabin Width                            | mm                       | 515                         | 595           | 595           | 700           |             |
|                         | H <sub>1</sub> Height                                 | mm                       | 1160                        | 1160          | 1360          | 1360          |             |
|                         | L <sub>1</sub> Cabin Depth                            | mm                       | 655                         | 790           | 845           | 990           |             |
|                         | Total Boiler Depth (+ 2, L <sub>1</sub> )             | mm                       | 1070                        | 1200          | 1280          | 1460          |             |
|                         | Stack Size, (Outer, ØD <sub>1</sub> - Inner Diameter) | mm                       | 130-125                     | 130-125       | 150-146       | 150-146       |             |
|                         | H <sub>2</sub> Height of Stack Connection             | mm                       | 745                         | 700           | 860           | 860           |             |
|                         | Water Content   | lt                       | 25                          | 50            | 75            | 110           |             |
|                         | Empty Weight  | kg                       | 150                         | 190           | 240           | 290           |             |
|                         | Wooden Case Freight Dimensions (WxHxD)                | mm                       | 615x1250x1100               | 715x1250x1240 | 715x1450x1320 | 820x1450x1500 |             |
|                         | Gross Weight  | kg                       | 170                         | 215           | 270           | 330           |             |
|                         | Filling & Drain Connections                           | ØD <sub>2</sub> Diameter | inch                        | 1/2"          |               |               |             |
|                         | Hot Water Outlet Connections                          | ØD <sub>3</sub> Diameter | inch                        | 1", Male      |               | 1 1/2", Male  |             |
|                         |   | L <sub>3</sub> Position  | mm                          | 210           | 250           |               | 303         |
|                         |   | H <sub>3</sub> Position  | mm                          | 1028          | 1020          | 1225          | 1228        |
| Water Inlet Connections | ØD <sub>4</sub> Diameter                              | inch                     | 1", Male                    |               | 1 1/4", Male  |               |             |
|                         | H <sub>4</sub> Position                               | mm                       | 152                         | 350           |               | 355           |             |
| SILO                    | Stand Fuel Storage Volume                             | lt                       | 300                         |               | 500           |               |             |
|                         | W <sub>2</sub> Width                                  | mm                       | 650                         |               | 800           |               |             |
|                         | L <sub>2</sub> Depth                                  | mm                       | 850                         |               | 900           |               |             |
|                         | Empty Weight  | kg                       | 35                          |               | 45            |               |             |

