

12 KW
18 KW
24 KW
30 KW

EN 303-5 / BImSchV 2
Ecodesign



Mareli Systems
STEP FORWARD



UNICPEL

PELLET BOILER

UnicPel is the latest addition to the range of pellet heating boilers manufactured by **Mareli Systems**. The model combines a clean and functional design, high efficiency, and excellent build quality. With UnicPel, Mareli's engineers have applied all their experience and expertise accumulated over the years to create a product that is exceptionally easy to install, maintain, and operate.

The built-in pellet hopper provides a high level of autonomy, while the easy-to-use manual cleaning mechanism for the turbulators ensures optimal combustion efficiency at all times.

UnicPel - perfection in simplicity.

MAIN FEATURES



AUTOMATIC COMBUSTION MANAGEMENT WITH A HUBA SENSOR

UnicPel is equipped with a HUBA sensor for automatic management of the combustion process. The system monitors various indicators in real time and, based on the results, automatically adjusts the fan speed and pellet feeding. This allows for a customized combustion process recipe, tailored to the specific characteristics of each system.

EASY TURBULATOR CLEANING MECHANISM

UnicPel is equipped with a user-friendly manual cleaning mechanism for the turbulators. It helps maintain consistently high heat exchange efficiency between the combustion chamber and the water jacket. With just a few simple movements, the user can easily remove soot buildup, ensuring optimal boiler performance and sustained high efficiency.

An additional advantage is that the mechanism is designed to minimize dust and debris dispersion during cleaning, keeping the area around the boiler clean and tidy.













EASY TO USE DISPLAY

UnicPel is equipped with an easy to use display, allowing user-friendly operation with just few clicks.

MAIN FEATURES

- Automatic combustion process control
- Easy manual cleaning mechanism for turbulators
- Built-in pellet hopper
- Large ash residue compartment
- Highly efficient combustion chamber insulation
- Weekly programmer and Wi-Fi option
- Management of circulation pump, DHW pump, DHW sensor, and room thermostat

TECHNICAL DATA

	12 - 1420(H)/630(W)/800(D) mm	
	18 - 1460(H)/630(W)/840(D) mm	
	24 - 1460(H)/630(W)/840(D) mm	
	30 - 1560(H)/640(W)/840(D) mm	
	12 - 99 °C	24 - 124 °C
	18 - 123 °C	30 - 126 °C
	12 - 92 %	24 - 93 %
	18 - 93 %	30 - 93 %
	12 - 100 kg	24 - 100 kg
	18 - 100 kg	30 - 110 kg
	12 - 260 kg	24 - 275 kg
	18 - 275 kg	30 - 292 kg
	12 - 0.8 - 2.8 kg/h	24 - 1.5 - 5.2 kg/h
	18 - 1.0 - 3.9 kg/h	30 - 1.9 - 6.5 kg/h
	φ6 - φ8	
	12 Pa	
	< 330 mg/m ³	
	230V / 50Hz	



REMOTE CONTROL

UnicPel could be optionally equipped with Wi-Fi module. It will allow the users to manage the boiler remotely via smart phone.



CERTIFICATION



INTEGRATED HIGH-CAPACITY PELLET HOPPER

UnicPel is equipped with a large-capacity integrated pellet hopper designed to ensure long-lasting autonomous operation. Thanks to its smart design, the hopper holds a significant amount of fuel, allowing the boiler to operate continuously for extended periods without the need for frequent refilling. This means fewer user interventions, greater convenience, and more consistent heating performance over time.



HIGH-EFFICIENCY INSULATION

The combustion chamber of the UnicPel boiler is insulated with a new generation of high-efficiency thermal insulation. This material—a blend of safe, natural components—is precisely marked and cut using technology, ensuring exceptional craftsmanship and minimal production waste. Thanks to this insulation, the boiler exhibits minimal radial heat loss, with nearly all of its power focused on the heating hydraulic system.