

Oil boiler

The boiler is the only one in the EU approve with current strict emission limits is designed for burning any kind of used oil (frying, engine, transmission, hydraulic, heavy fuel oil and etc.). When you change oil from one type to another the boiler does not require any adjustments. Boiler is structurally designed to operate automatically without any maintenance or service, except the removal of ashes after 200-300 hours of operation, if we burn "dirty" oil. The cleaning takes only about 5 minutes.

The boiler features the regulation of output power to maintain the required temperature, it switches on automatically and works on maximum power until it heats up the water to the required temperature from 40-100 °C. When the boiler reaches the required temperature, it will automatically adjust the performance to maintain set temperature. In case the heat consumption is lower than the minimum output of the boiler, it will switch off and wait for the next signal to start. This operation is the most optimal for consumption, as it only requires the boiler to start only once or twice a day. It would be counterproductive to switch off the boiler several times per day, as every boiler creates a cooling effect when it's not in operation.

Another advantage of the boiler is perfect combustion. For smooth running with minimal output the burner does not feature any high pressure nozzles, instead it is fitted with a converging nozzle. This construction allows using even "dirty" oils, without filtration. Minimum oil consumption is 1 litre per hour depending on oil type, during which it will produced about 15 KWh of heat energy. Emissions are odourless and without smoke.

Boiler efficiency is around 95% which means that only 5% of the heat is lost. Electric power consumption is low, about 150W / h (without the circulation pump). No compressed air or electrically heated oil is required, as the 80 litre tank is positioned in such a way that the oil is heated during the circulation process. Oil pump doses the oil to the burner. Due to this process there is no excess pressure on the pump, which provides long lasting durability.

The boiler is made from stainless steel and refractory materials, brass and copper, as they are very durable to high temperatures and aggressive fuel burned and also prevents heat exchangers from choking the boiler. Boiler works almost without wear. With these aspects, the boiler consumes only half the fuel in comparison with other oil boilers and several times lower consumption of electric energy while maintaining the same performance. Boiler safety is secured by a control unit that ensures: starting, maintaining the temperature of heating medium (water), controlled extraction of combustion gasses, changeable boiler performance settings and boiler safety.

Boiler turns off automatically in extreme situations such as:

- Boiler overheating
- Sharp decrease of medium temperature (bad combustion)
- If fuel runs out.
- Flame goes out.
- If exhaust fumes are blocked.
- Interruption in the supply of air to the combustion chamber.
- Pressure falls of the medium (water) below the set limit.

The boiler output is adjustable from 15KW to 70kW.

Emission Parametrs

<i>PARAMETR</i>	<i>VALUE</i>
Power	33 kW
T-Gas	66.9 °C
T-Air	17.3 °C
Dew Point	48.0 °C
O2	4.3 %
CO2	12.2 %
Losses	2.4 %
Effiec.	97.6 %
Effiec. Exh.	103.5 %
CO	3 ppm
CO	5 mg/0%
CO	4 mgkWh
Exces Air	1.26
NOx	50 ppm
NOx	130 mg/0%

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