



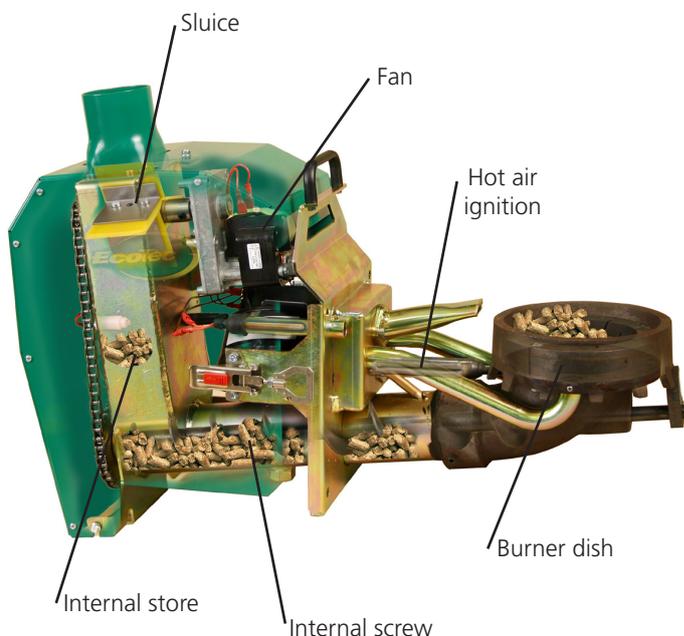
# BioLine 20

The next generation of the good old A4

## More compact, more efficient and even more comfort

This burner is the one for you if you want to use environmentally friendly pellets as the energy source for your heating.

- Underfeed combustion
- Hot air ignition
- Control device with simplified function



## Why buy a BioLine 20?

Quite simply because it's equipped with the latest technology for underfeed combustion!

Which means, amongst other things, that servicing is easier and you don't need to visit the boiler room as often. All the fuel, even the smallest of particles, is forced upwards and into the combustion zone, where it is fully combusted before the ash particles leave the burner dish. As a result, the burner is not as sensitive to chips in the pellets, an unavoidable occurrence when the pellets are blown into the silo from a bulk tanker. The design ensures that EcoTec can cope with ash-rich pellets.



### Extra equipment:

- EcoVac Mini ash vacuum
- Damper, depending on chimney draught
- Pellet store with feed screw.

Automatic device for controlling, regulating and monitoring the burner's functions. Operating information via display/window menu.

## Ash and combustion

All systems which burn solid fuel, even automatic systems like the BioLine 20 burner, require maintenance and servicing.

The size of the liner usually depends on the product chosen. By choosing a burner and boiler combination with our accessories, the work is made much easier.

The majority of the maintenance involves ash handling. After pellets are burnt in a BioLine 20, the waste product does not contain more than 0.4-0.5% ash by weight. If 6.3 tonnes of fuel is used each year, the ash quantity is approx. 25 kg.\*

You return the ash to nature by spreading it on lawns, thereby reducing the need for fertiliser. Biofuel combustion does not add to the carbon dioxide content in the atmosphere.

\* Depending on power output and type of fuel

## Advice on biofuel – raw materials

The most popular pellets are made from chips or bark, which work well in the BioLine 20. The important factors are energy value, ash content, the volatile matter content, the environmental impact and, last but not least, the price. You should choose a fuel which has the lowest cost per unit of energy, taking into account the fuel's function in the burner, its ash content and environmental impact.

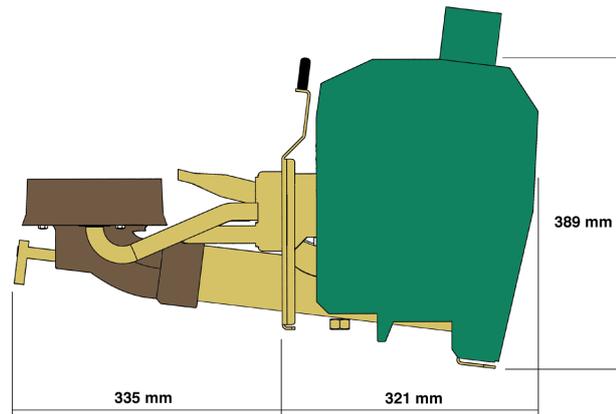
## Approved specification for pellet fuel

Weight	600-750 kg/m <sup>3</sup>
Energy content	4.7-5.4 kWh/kg
Size / Diameter	6-8 mm
Size / Length	Note: max. 35mm
Moisture content	max. 12%
Ash content / Weight	<0.5% (sawdust pellets)
Fines content / Weight	max. 3%
Ash melting temp.	min. 1100°C

## Fuel fact (Example)

To replace the heating in a standard house that uses 3 m<sup>3</sup> of oil per year, for heating and hot water you would need 6.3 tonnes of pellets or approx.: 30,000 kWh of electric heat\*.

\*The efficiency of your current system is not taken into account.



## Technical data for BioLine 20

Feed output, pellets	12-20 kW
Combustion efficiency	90-95%
Weight	25 kg
Voltage	230 VAC
Length from the boiler	330 mm
Height outside the boiler	450 mm
Width outside the boiler	210 mm
Minimum boiler opening	
Height x width	175 x 180 mm
Clearance above the burner dish in the boiler	150-200 mm
Hot air ignition	370 W
Electricity requirements, burner + screw	60 W

## Control, regulation and monitoring

The BioLine 20 is controlled by the operation thermostat supplied, normal operating range 75-85°C.

The control device supplied then regulates burner operation and monitors its functions.