

SOLAR ENERGY IRELAND

... setting new standards in modern heating systems, and it doesn't cost the earth...

NEW: The Künzel PL boiler are approved for €4,200.00 "Greener Homes Scheme-Grant aid"

Künzel Pellet-Boilers PL 15 & 25

Pellets - the new fuel for modern heating systems.

For more than 5 years now, people are changing over to a more environmentally friendly fuel the "Wood Pellet" which is now produced locally in Ireland by Balcas in Enniskillen, N.Ireland

Wood pellets are made up solely of natural, renewable raw material for which no forests have to be felled. Practically no sulphur dioxide, (one of the main causes of acid rain) is emitted when pellets are burned. The ash is an excellent natural fertilizer for fields and gardens.

Heating with wood has many advantages. On the one hand, the fuel is mainly produced locally and, on the other hand, wood has an even CO2 balance and does not contribute towards aggravating the climatic conditions as other fossil fuels do.

Heating with wood is using a regenerative energy. For this reason, most countries in the EU e.g. Germany, UK and in North of Ireland provide state incentives (Grants) for the purchase and installation of automatic pellet boilers and stoves.

The KÜNZEL Pellet Heating Boiler works **fully automatically** apart from having to be refilled occasionally with pellets (every 3 - 4 days) and the ashtray having to be removed and emptied once every 3-4 weeks (optional, automatic ash removal system). Pellets cause much less dust than firewood. Electrical ignition and a minor amount of reloading mean that the boiler is easy to use. The PL15 & 25 boilers are best installed in a boiler room, garage or outhouse.

Complete System Packages:

Package PL2 incl. Pellet heating system with regulated hot water tank and buffer.

Package PL3 incl. Pellet heating system with combination tank (tank in tank).

Package PL4 incl. Pellet heating system with hot water storage and solar warm water system.

Package PL5 incl. Pellet heating system with combination tank & solar system.

The Boiler



PL15

The Fuel



Pellets made from Wood
CO2 neutral fuel

The Boiler can be fuelled with pellets of 6mm and 8mm diameter, which meet the EU standard DIN plus, PVD and PVA standards. They are available in 15kg bags or loose in bulk order

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The Boiler is microprocessor controlled. Easily understood symbols make the operation easy, even for those to whom technical matters are foreign. Just load the pellets, press "Start" and enjoy the cosy warmth.

Options for the PL boilers

As an option, the boiler can be fitted with an on-off control system (type: E 233 B) controlled by weather conditions. The thermal output of the PL 15 heats a detached family house of up to 150qm, the PL 25 of up to 250qm depending of the insulation standard and heating system of the building. However if more energy is required, the system can be combined with oil or gas heating and thus contributes towards an environment-friendly heating in larger buildings.

NEW: Automated ash removal system

A Boiler efficiency of over 90% ensures optimum fuel utilisation and low operating costs for the owner. A rule of thumb says that 2 kg of wooden pellets replace approx. 1 litre of heating oil.

The pellet quantity of 220 litres (approx. 140 kg) stored in the integrated container are enough for an average of 3 to 4 days at the rated load and up to one week at partial load depending on heating system installed and how the building is insulated. The pellets in the storage container are protected against burn-back due to a combination of spiral conveyor and down pipe. All parts of the combustion chamber subject to high thermal stress are made of acid proof special steel. An integrated, swivelling, induced draught ventilator makes it possible to install the boiler in almost any fitting position.

Pellet Suppliers in Ireland:

Balcas LTD Tel. no +44(0)28 6632 3003

| Type PL | 15-PL | 25-PL |
|--|--|---|
| Maximum heat output kW - (Btu/h) | 14,9 - (50,840) | 25 - (85,320) |
| Fuel | Pellets size 6 mm and 8 mm accord. DIN AND PVA | |
| Power supply | 230V / 240V 16 A 50 Hz | |
| Power consumption | 65 W | |
| Water boiler size | 60 litres. | |
| Pellet storage capacity | 140 kg (220 litres) | |
| Pipe connections | 1" (25,4 mm) | |
| Filling and draining cock | 1/2" (12,7 mm) | |
| Flue gas connection Ø | 100 mm | |
| Ash box | approx. 18 litre. | |
| Emission flow rate | 0,011 kg/s | |
| Co2 content | 10,5 % | |
| Flue gas temperature | 160° C | |
| Draught requirement | 5 Pa | |
| Accessories | Cleaning brushes | |
| Starter kit | 15 kg Pellets | |
| Order no. | 150005 | 150006 |
| Euro price incl. 21% V.A.T. | €7,404.00 - (incl. control panel) | €7,645.00. - (incl. control panel) |
| <i>Technical specifications are subject to change without notice</i> | | |
| Delivery & Installation charges by arrangement. Solar Energy Ireland terms and conditions of sale applies | | |

Optional Extras for your pellet heating system

Ready made pellet silos 3.5 –20 ton
Pellet feeding system to boiler 3m
Weather regulated heating controller
Pressurising kit for domestic hot water
Re-circulation system for D.H.W.

Stainless steel D.H.W. tanks
Pressurising pumps 3bar
Thermo mixing valve for boiler
Stainless steel flue systems
Buffer & hot water storage tanks

High density pipe insulation
2 & 3 Way motorised valves
External de asher
Fittings & Pipes
Safety units 4 in 1

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