

woodco



KWCogen

Generate Usable

Heat And Electricity

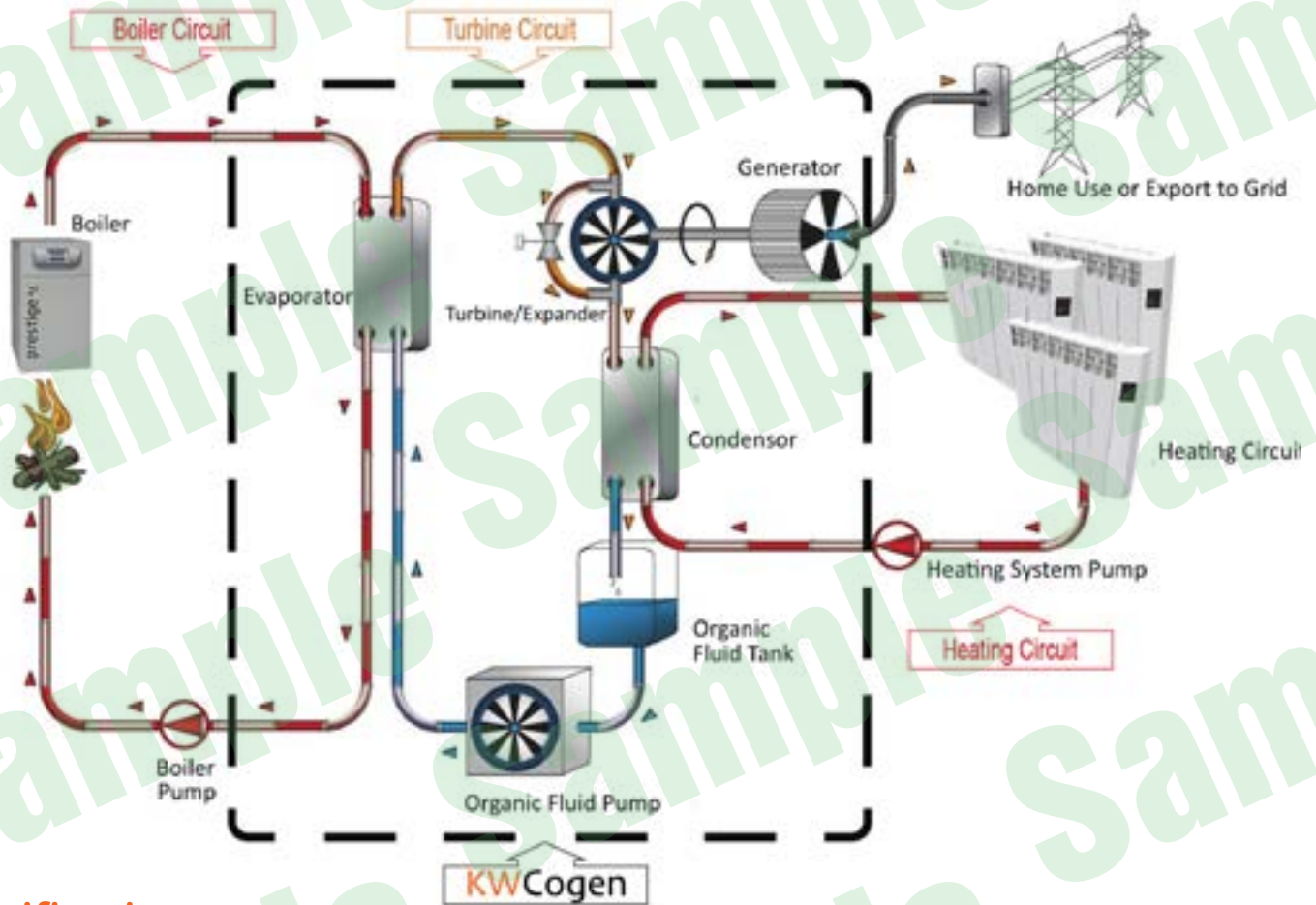
With Woodco's KW Cogen
Biomass MicroCHP Unit

The new **"KW COGEN"** Biomass MicroCHP unit is fully-integrated renewable CHP system that simultaneously produces both **Useful Heat** and **Power**.

Powered by our premium **"Prestige"** pellet boiler, the KW MicroCHP unit uses the principles of Organic Rankine Cycle (ORC) to make use of temperature from the boiler to generate electricity.

How does ORC work?

- 1 High pressure gas leaves the evaporator and enters the scroll expander that drives the generator to produce power
- 2 The low pressure expanded vapour leaves the expander and enters the condenser where it is cooled and condensed to a liquid again
- 3 The cooled liquid is sent to a pump where the pressure is increased dramatically and pumps to the evaporator
- 4 Hot water enters the evaporator and heats the organic fluid to boiling. This closes the cycle, and is continually repeated



Specification

| | KW Cogen 2.5 | KW Cogen 3.5 |
|-------------------|--------------|--------------|
| Thermal Output | 25kW | 37kW |
| Electrical Output | 2.5kW | 3.5kW |

Benefits

Clean, renewable electricity generation from a renewable heat source

Generate usable heat and electricity, which can be used in the home or exported to the national grid. It can also serve as a back-up in the event of a power outage.

Remarkable cost savings

Enjoy massive cost savings on heating and electricity, and generate income through the Government Support Scheme for Renewable Heat

For more information on how you can benefit from Woodco's revolutionary MicroCHP unit, get in touch with us

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