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Visit our website for further information on the AC WhisperGen™ microCHP system.

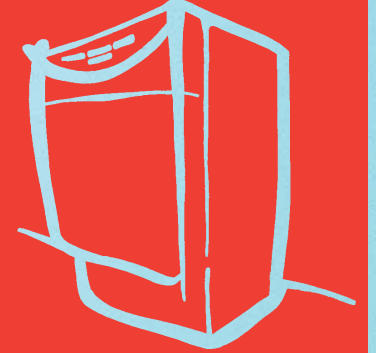
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The new  
power  
generation



**WhisperGen™**  
a quiet revolution is taking place



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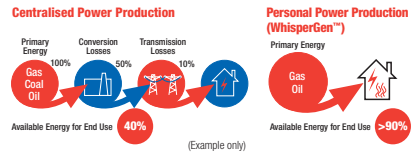
**WHISPERGEN™**  
HEAT AND POWER SYSTEM

# The WhisperGen™ microCHP system – an energy efficient, domestic appliance (no bigger than your average dishwasher) that generates both heat and electricity for use in the home.

## Your personal power station

The WhisperGen™ is Micro Combined Heat and Power (or Residential Co-generation) technology that is creating a quiet revolution in energy generation.

It is an effective and clean energy generation system which is poised to replace existing home boilers. Not only can it supply all of the household's water heating demand (with domestic hot water and central heating), but at the same time it generates electricity which can either be used in the home or supplied back to the grid.



## Benefits of the WhisperGen™

- Real savings for the customer through the production of their own electricity to supplement grid electricity supply.
- Environmental benefits as fuel is used more efficiently, reducing CO<sub>2</sub> and other emissions.
- Economic benefits for utilities especially in helping to avoid peak-load costs when the network is overloaded.
- Reduces the need for large central power stations and their associated transmission network.
- Allows for rapid introduction of new generation capacity.
- Creates the opportunity for the integration of gas and electricity retailing.

## There's more than one reason to choose the WhisperGen™

**Clean and Efficient:** both in design and performance, which means lower energy costs and with minimal impact on the environment.

**Reliable:** low maintenance design.

**Self Managing:** features integrated microprocessor controlled system, which eliminates the need for constant user interaction.

**Effective Heat Output:** typically 12kW thermal output.

**Compact:** the WhisperGen™ microCHP system is the size and shape of an average domestic dishwasher.

**Quiet:** the low vibration and external combustion features of the WhisperGen™ Stirling engine result in noise levels comparable to (and in many cases much quieter than) other household appliances.

- A) Gas burner: flame heats the four cylinder heads of the engine
- B) Exhaust heat recovery unit: uses the exhaust heat to heat the water
- C) Stirling engine: uses the heat from the burner to push pistons back and forth
- D) Water heating: water is further heated as it passes through the engine
- E) Wobble Yoke (inside): converts the linear motion of the pistons into rotating motion for the alternator
- F) Gas valve: supplies and regulates the gas to the burner
- G) Rotary alternator (inside): generates electricity
- H) Water pipe connections: delivers the hot water to the home's hot water cylinder and heating system

## Technical Specifications

**Model** MkV AC Gas fired

**Engine** 4 Cylinder double acting Stirling cycle

**Outputs** Electrical: 1000W AC at 220-240V.  
Thermal: heat output from 7.5-12kW

**Fuel** 2H - 2nd family natural gas

**Power Connection** Grid connected 4 pole induction generator, IEC plug and socket connections

**Dimensions** 480 x 560 x 840 (w x d x h)

**Dry Weight** 137 kg

**Enclosure** Floor mounted, free standing, stainless steel front enclosure with built-in control panel

**Connections** Standard plumbing connections

**Environment** Ambient: 0-45°C.  
Humidity: 0-95% non-condensing

**Flue** Horizontal or vertical balanced flue

**Approvals** CE Marked



## WHISPERGEN™ microCHP The Urban Home Power Station

- 1 WhisperGen™ unit
  - 2 Fuel supply
  - 3 AC power 230V
  - 4 Standard domestic appliances
  - 5 Hot water for domestic use
  - 6 Room heating
  - 7 Meter for AC power to and from Network
  - 8 Hot water storage
- Potable hot water  
■ Heating water  
■ Electricity

