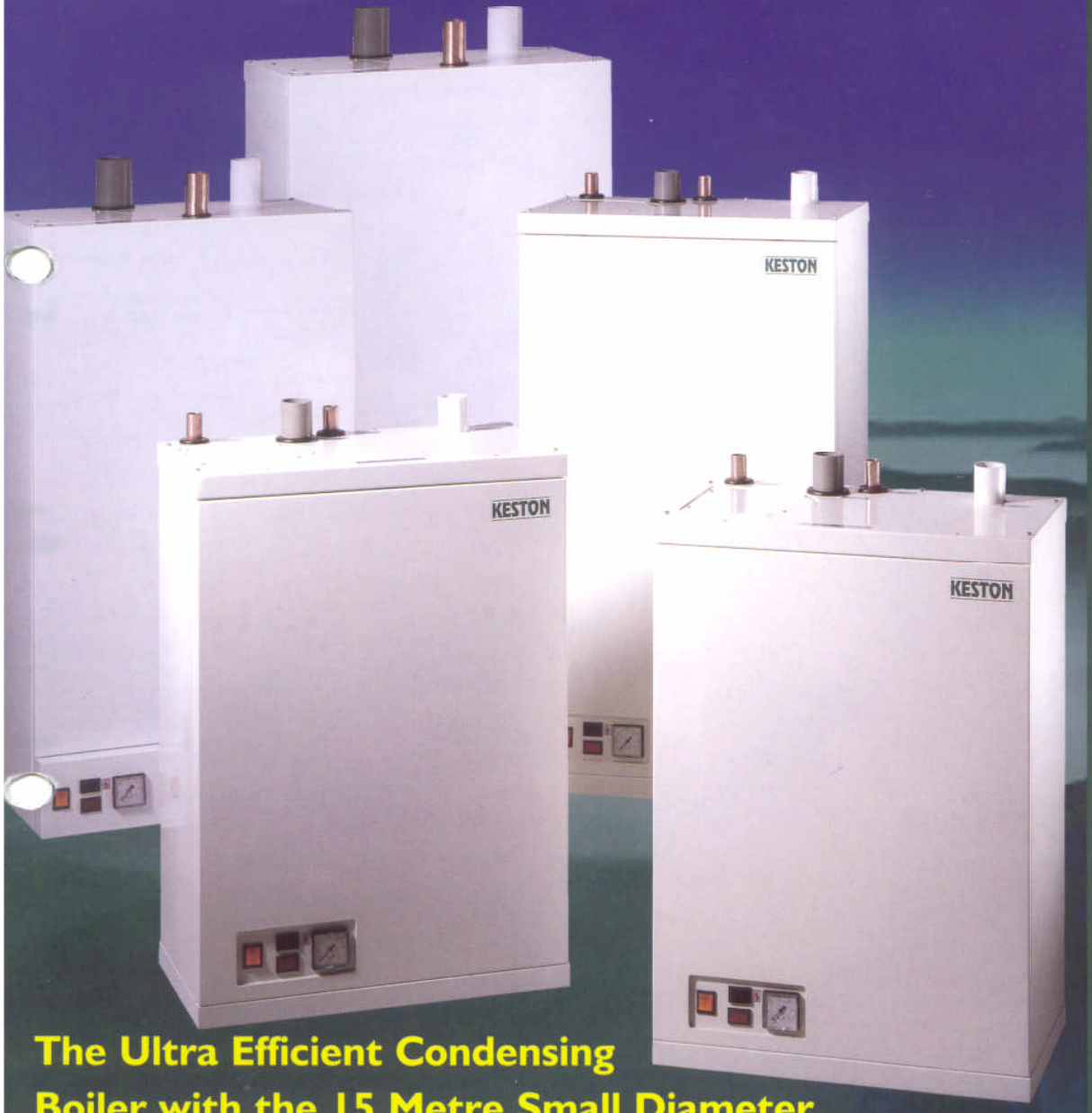
KESTON

CONDENSING BOILERS

For Ultra Efficient, Fuel Saving and Environmentally Clean Gas Fired Central Heating . . .



- Simple to install, maintain and operate
- Can be sited practically anywhere
- Complete reliability
- Can save over 30% on heating bills
- Five year heat exchanger guarantee
- Available in:
  50,000Btu/h
  60,000Btu/h
  80,000Btu/h
- Natural & LP Gas
- British Gas Approved & Service Listed
- 130,000Btu/h
  170,000Btu/h
  commercial models also available

The Ultra Efficient Condensing Boiler with the 15 Metre Small Diameter Standard Plastic Waste Pipe Flue.

All models fully eligible for Energy Saving Trust **'Cashback'** Scheme.
Natural and LP Gas.

Energy Saving Trust

OUTRIGHT WINNER
H&V NEWS Awards 95
DOMESTIC H&V PRODUCT OF THE YEAR

The Keston Condensing Boiler

Wherever You Want Your Boiler Sited

Because Keston boilers are room sealed and have a unique and versatile flue/air intake system, your boiler can be situated practically anywhere and in the most convenient position. The flue/air intake is small diameter standard muPVC plastic kitchen wastepipe measuring just 40mm (1½") for the domestic range which can be extended up to 10 metres in length, and 50mm (2") for the Keston 130 and Keston 170 commercial models which can be extended up to 15 metres in length from the appliance.

With Keston boilers installation costs and valuable space can be saved as well as saving labour, money on fuel bills and the environment.

The Essential Choice

The Keston range of condensing boilers provides outstanding benefits to both the installer and their customers, today and for the future. Super high efficiency and reliable heating systems, combined with ultra low NO_X combustion means very low running costs and virtually no atmospheric pollution. All this in a package which is simplicity itself to install, maintain and operate.

With conventional boilers approximately one third of the heat generated can be lost up the chimney. With a Keston Condensing Boiler this heat is returned to the central heating. The Keston Condensing Boiler will operate at efficiencies of up to 99% which cuts carbon dioxide emissions, a major contributor to the Greenhouse effect, and consequently fuel bills. In addition, the patented combustion technology burns so cleanly that NO_X emissions, a major cause of acid rain, can be reduced to less than 5ppm (parts per million), well below even the most stringent environmental requirements and possibly the lowest of any boiler available today.

Make Your Contribution Towards The Environment

Although gas is the cleanest of commercially available fuels, heating and hot water is probably one of the most expensive annual bills on your pocket and on the environment. By installing a Keston Condensing Boiler you could save over 30% on heating costs, at the same time making your contribution towards the environment by keeping the air we breath as clean as possible and conserving valuable resources for future generations.

This in conjunction with the flueing flexibility and low maintenance are the essential reasons for installing a Keston Condensing Boiler.

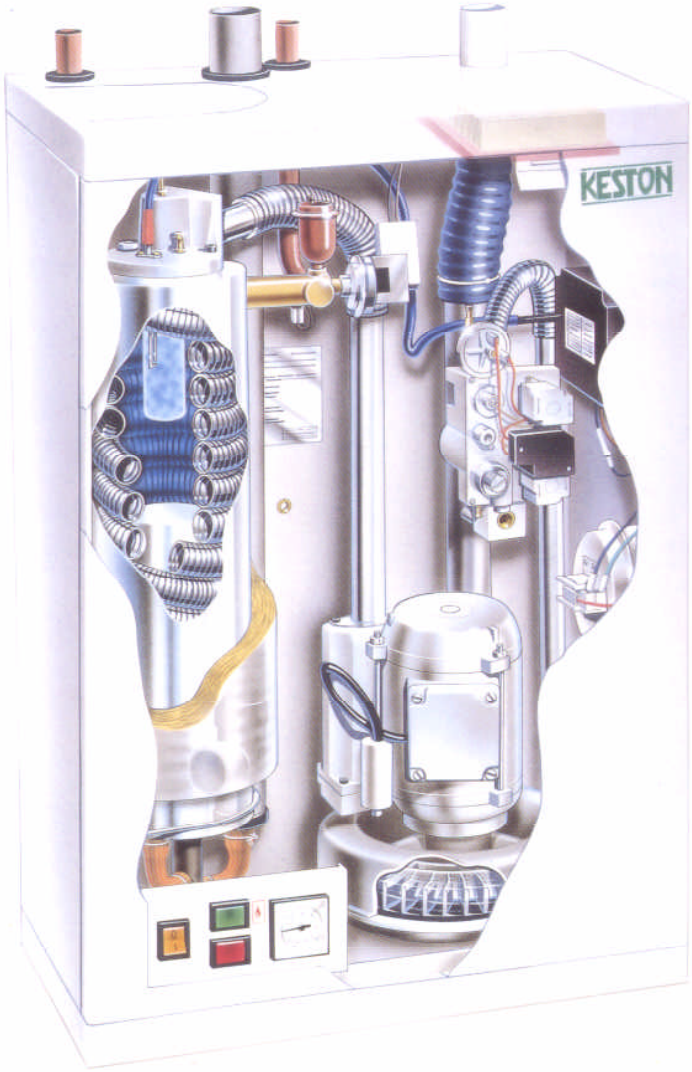
How does it work?

The Keston is a revolutionary concept covered by world patents. The design provides high efficiency, with a single pass heat exchanger, and clean combustion without the complications of other condensing boilers. Air is drawn into the unit via a 40mm plastic pipe and an in-built filter. A measured amount of gas is injected into the air stream and the mixture is passed through a highly turbulent blower. This blower forces the mixture of gas and air into a patented micro-mesh burner which burns with a tight blue flame, after being ignited by a spark electrode. There is no pilot or thermocouple in the appliance.*

The hot combustion gases pass down the centre of a tightly coiled steel tube carrying the central heating water. When the combustion gases emerge from the base of the water coil the temperature is reduced to around 5°C above the return water temperature. The cooled gases are then forced out of the heat exchanger into the 40mm plastic pipe where they are discharged to the atmosphere.*

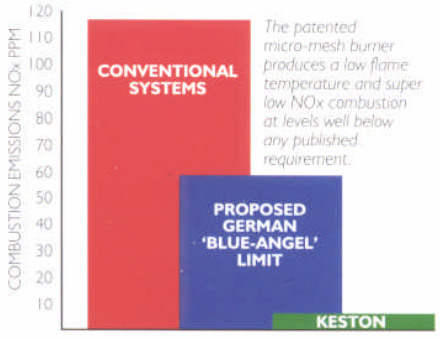
The Keston incorporates a patented single pass heat exchanger providing high efficiency without the normal complex double heat exchanger system of other condensing boilers. Its compact construction of high grade super alloy stainless steel ensures long life and carries a guarantee against leakage.

** 50mm for the Keston 130 and Keston 170.*

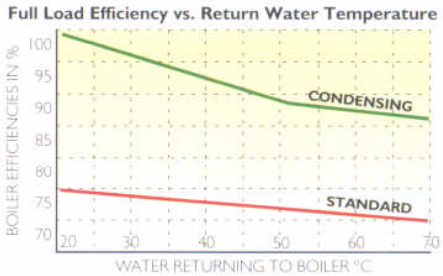


Condensate "Pluming" Taken Care Of

All condensing boilers will generate 'pluming' which appears as steam from the flue terminal. On other condensing units this pluming can drift across nearby windows causing annoyance and possible condensing on the window glass or frame. With the Keston Condensing Boiler it is easy to reach a location well away from windows or openings. In addition, the high speed of the flue gases causes the plume to be blown far away from the terminal and well clear of the building.



The patented micro-mesh burner produces a low flame temperature and super low NOx combustion at levels well below any published requirement.

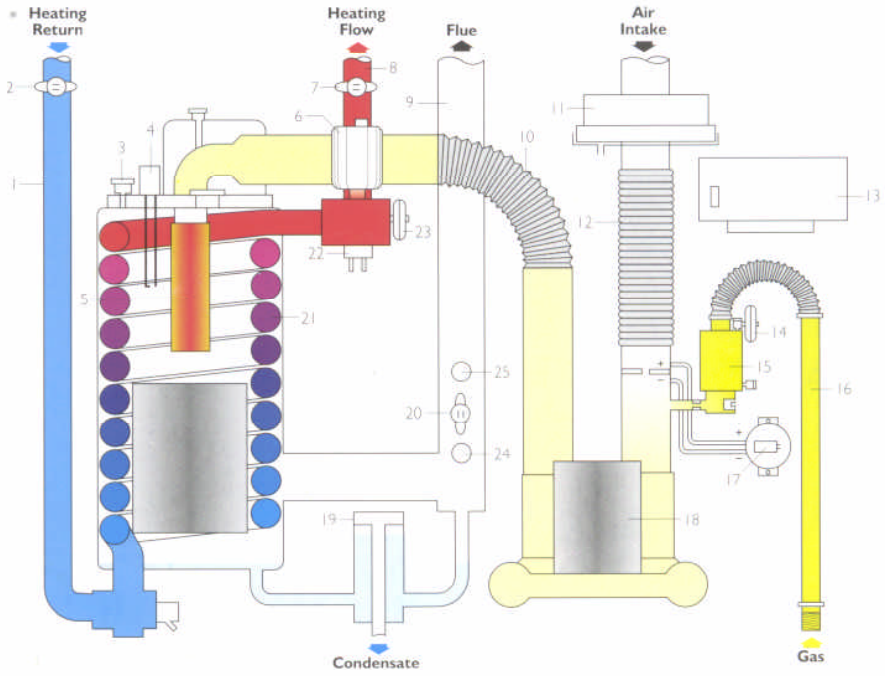


High efficiency condensing boilers produce more heat, using the same amount of gas, than any other type of gas boiler.

No Printed Circuit Boards

The simple concept of the Keston means that no printed circuit boards are required (apart from the sealed spark ignition unit). Hence, electrical wiring of the unit is simplicity itself.

The Keston Condensing Boiler Schematic



1. Heating Return
2. Water Return Thermostat
3. Downstream PTN
4. Spark Electrode
5. Mirco-mesh Burner
6. Automatic Air Vent
7. Flow Overheat Thermostat
8. Heating Flow
9. Flue
10. Air/Gas Flexible Hose
11. Air Inlet Filter
12. Flexible Air Intake Hose
13. Ignition Control Box
14. Low Gas Pressure Switch
15. Gas Control Valve
16. Gas Inlet
17. Air Pressure Switch
18. Combustion Blower
19. Condensate Trap
20. Flue Overheat Thermostat
21. Heat Exchanger
22. Flow High Limit Thermostat
23. Low Water Pressure Switch
24. Combustion Test Point
25. Flue PTN

* *Heating return exits base of cabinet on Keston 130 and Keston 170 models.*

	Keston 50	Keston 60	Keston 80	Keston 130	Keston 170
Height	711mm / 28in	711mm / 28in	889mm / 35in	889mm / 35in	889mm / 35in
Width	500mm / 19.7in	500mm / 19.7in	500mm / 19.7in	500mm / 19.7in	500mm / 19.7in
Depth	300mm / 11.8in	300mm / 11.8in	300mm / 11.8in	300mm / 11.8in	300mm / 11.8in
Weight	44kg / 97lbs	44kg / 97lbs	50kg / 110lbs	61kg / 134lbs	61kg / 134lbs
Flue Diameter	40mm / 1.5in	40mm / 1.5in	40mm / 1.5in	50mm / 2in	50mm / 2in
Max. Flue Length	10m / 32.8ft	10m / 32.8ft	10m / 32.8ft	15m / 49ft	15m / 49ft
Side Clearance	1mm	1mm	1mm	1mm	1mm
Top Clearance	254mm / 10in	254mm / 10in	254mm / 10in	254mm / 10in	254mm / 10in
Base Clearance	127mm / 5in	127mm / 5in	127mm / 5in	127mm / 5in	127mm / 5in
Flow/Return Connections	28mm copper	28mm copper	28mm copper	35mm copper	35mm copper
Flue/Air Connections	40mm muPVC	40mm muPVC	40mm muPVC	50mm muPVC	50mm muPVC
Gas Connection	½" BSPT (male)	½" BSPT (male)	½" BSPT (male)	¾" BSPT (male)	¾" BSPT (male)
Condensate Connection	22mm plastic	22mm plastic	22mm plastic	22mm plastic	22mm plastic
Output	14.65kW	17.58kW	23.45kW	38.1kW	50kW
	50,000Btu/h	60,000Btu/h	80,000Btu/h	130,000Btu/h	170,000Btu/h
British Gas GC No.s	41 930 01	41 930 02	41 930 03	41 930 05	41 930 04

KESTON Boilers

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