

The most cost-efficient central heating boilers in the world*

i.e. Cheapest to run

**These Very High Efficiency
boilers will save you
money throughout their
lives and will repay
their cost over and over
again compared with
ordinary equipment**

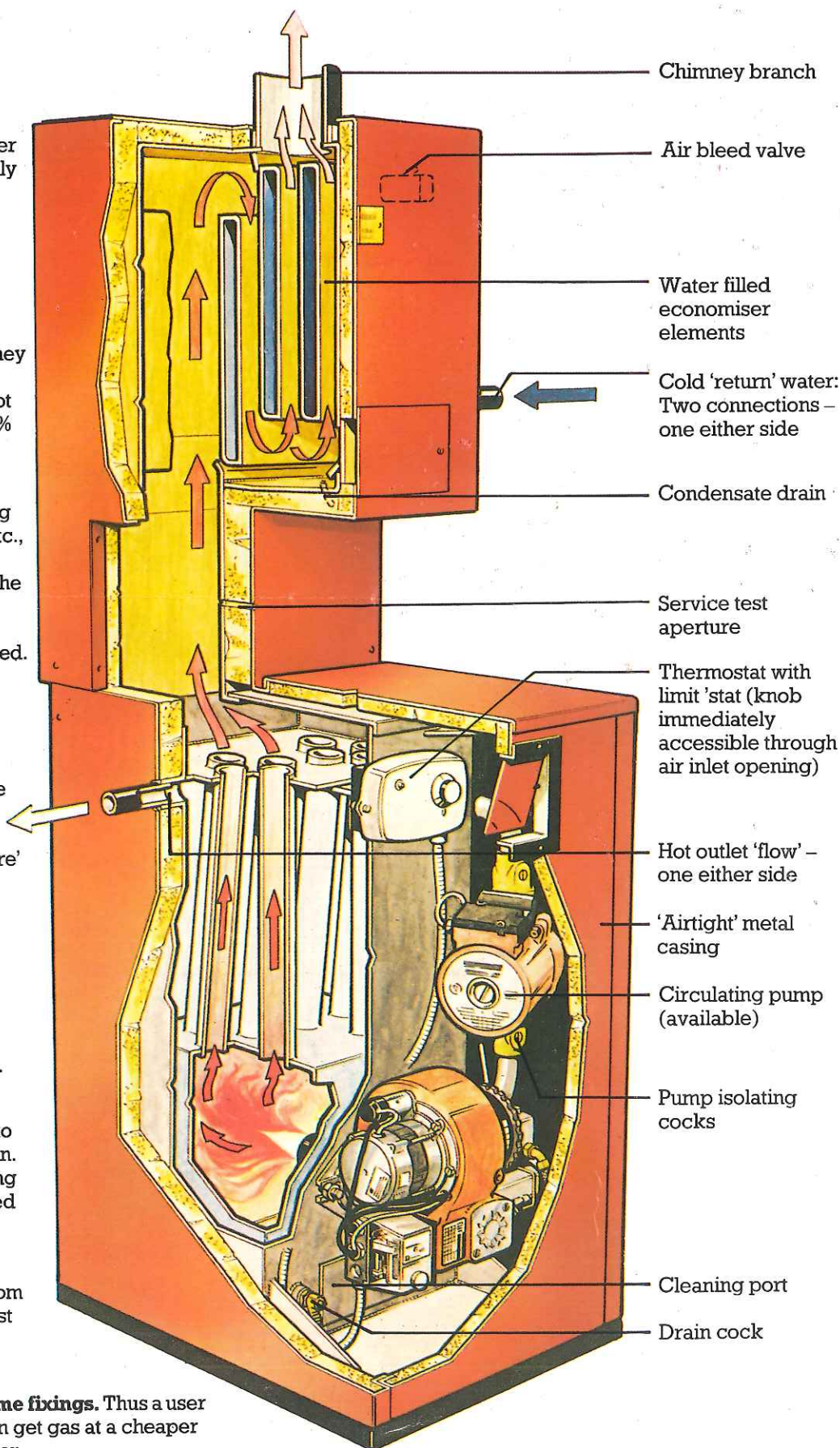


Model 1

* This claim appears on all our advertising in the National press and has not been successfully challenged since it was first made in 1982.

Why a Kidd Boiler is so much more efficient

- 1** It has a patented economiser to recover the last practically available heat from the flue gases. This heat exchanger pre-heats the return water from the system before it enters the boiler proper.
- 2** It has an automatic cut-off device to prevent the chimney pulling cold air through the boiler when the burner is not actually firing – possibly 60% of the time.
- 3** The air inlet to the burner is at a high level, thus reducing the risk of dust, dog hairs etc., being entrained in the fan runner in the burner. Thus the burner efficiency does not taper off and frequent expensive cleaning is avoided.
- 4** The basic boiler is very generously designed with ample furnace capacity for complete combustion, fully waterjacketed including the base and with a large secondary heating area comprising near-vertical 'fire' tubes.
- 5** The boiler has an attractive outer casing which is **fully insulated** inside, using closely-fitted fibre glass panels, mostly 2" (50mm) thick. This insulation also greatly reduces noise level.
- 6** The boiler is designed from many years of experience to be easy to service and clean. For instance, the front casing and boiler lid can be opened up in about ten seconds without any tools.
- 7** The **annual** efficiency is from 36% to 50% higher than most ordinary boilers.



Oil or gas burner go on same fixings. Thus a user on oil who later finds he can get gas at a cheaper rate can readily convert over.

Chimneys

This subject, frequently neglected, is worthy of careful consideration since a good deal of money may be saved by employing our **balanced draught** system.

Existing chimneys should be tall enough to avoid all down-draughts and we recommend that they are lined with our corrosion-protected tubular sections. Existing ceramic or stainless steel linings are not recommended because they cannot withstand the corrosive sulphur acids which are bound to arise.



The Model 1 boiler with oil burner

Condensate

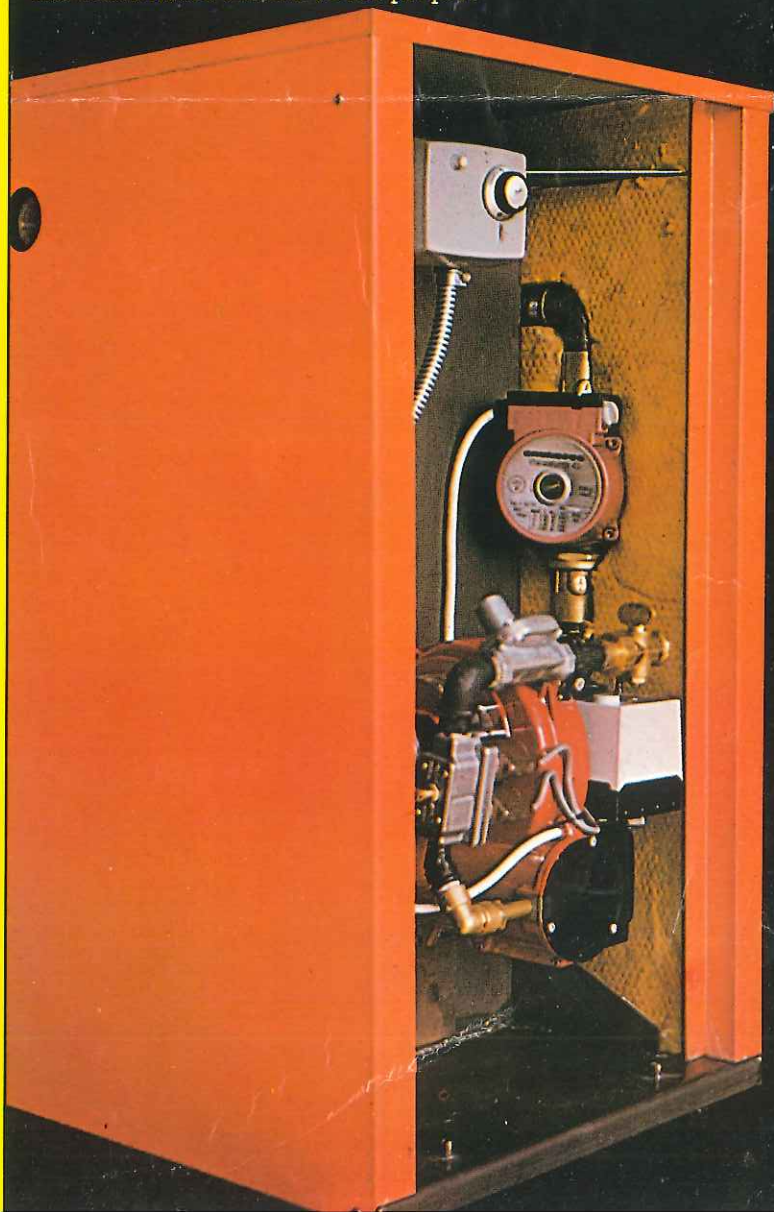
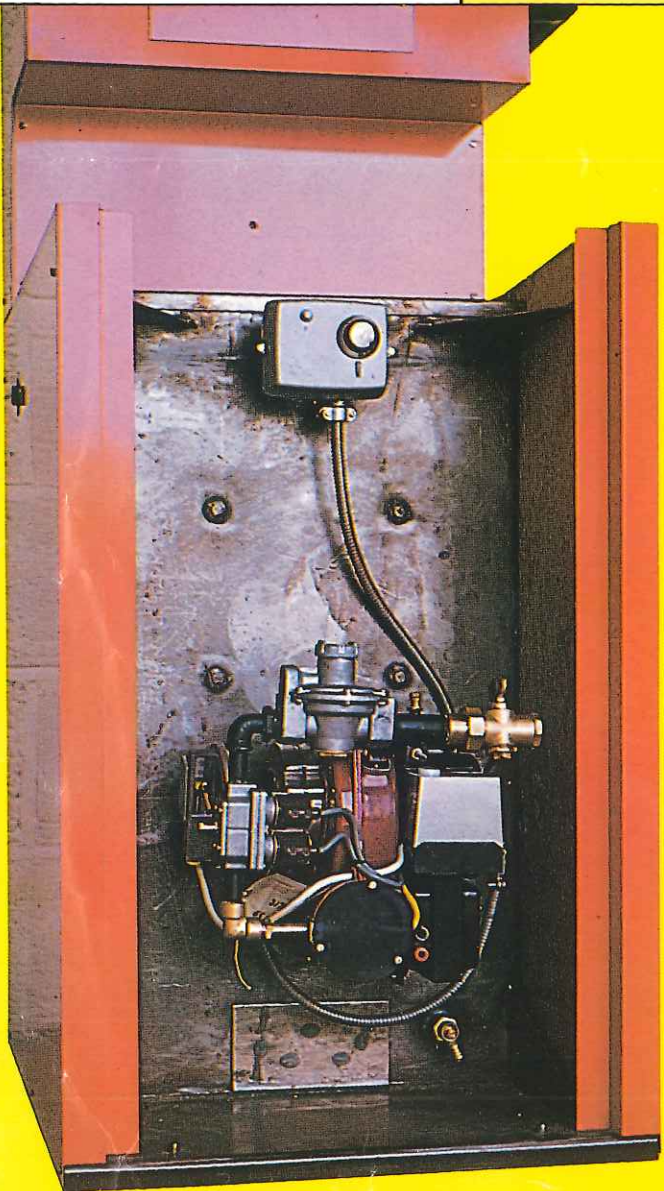
Kidd Boilers make a point of cooling the combustion gases below the 'dew' point and make proper provision for collecting and draining the ensuing condensate harmlessly away. They are corrosion proofed by a patented process.

Ordinary boilers evade these difficult problems. Consequently damp from a wet chimney can rot the brickwork and stain the walls – particularly at bedroom level.

Efficiency

Some manufacturers claim efficiencies of 80% or more. The figures relate to the spot or short-term figure while the boiler is actually firing. The true criterion is the **annual efficiency**, i.e. the proportion of the heat paid for in the annual fuel bill that usefully goes down the actual pipe into the house.

A Model 1 unit with the circulating pump incorporated between the economiser and the boiler proper.



Technical Data

Model 1

Output: 60,000–90,000 BTU/hr (17.6–26.4kW)
 Fuels: 28 second kerosene
 North-Sea gas
 Propane (LPG)
 Heat loss when idle but at full temperature: About 350 Watts
 Operating efficiency: (see note under Model 2)
 Annual efficiency: 91% based on gross calorific value of fuel
 Average fuel bill saving: 88.2% (An ordinary boiler is about 54–56%)
 Connection for gas (where applicable): We rarely produce savings of less than 36% of the previous fuel bill and frequently the figure is over 50%
 Water connections: ½" BSPF standard for natural gas.
 Empty weight: 8" w.g.
 2 flow and 2 return 1" BSPF
 355 lbs (161 Kgs)

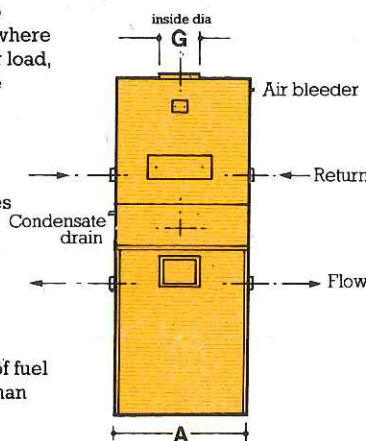
Model 2

Output: 100,000–160,000 BTU/hr (29.3–47kW)
 PLEASE NOTE: For loads of up to 300,000 BTU/hr (88kW), we recommend two Model 2 boilers in parallel. In cases where one boiler could handle the summer load, this arrangement may even be more economical.
 Fuels: 28 second kerosene
 North-Sea gas
 Propane (LPG)
 Heat loss when idle but at full temperature: About 460 Watts. This figure assumes exposure to icy environmental conditions over 24 hours with only a roof for protection. In a sheltered garage, etc., the figure will be less.
 Operating efficiency: (N.B. Ordinary boilers have an idle time loss of the order of 2–4kW).
 Average fuel bill saving: 91% based on gross calorific value of fuel
 Connections for gas: We rarely produce savings of less than 36% of the previous fuel bill and frequently the figure is over 50%
 Water connections: ¾" BSPF standard for natural gas.
 Empty weight: 8" w.g.
 2 flow and 2 return 1" BSPF
 513 lbs (233 Kgs)

Model 260

Output: 260,000 BTUs/hr (76kW)
 Fuel: 28 second kerosene
 North Sea gas
 Propane (LPG)
 Heat loss when idle but at full temperature: 430 watts
 Operating efficiency: (NB. Ordinary boilers of comparable size have an idle time loss of the order of 5–7 kW)
 Saving: 91.6% based on gross calorific value of fuel
 Connections for gas: We rarely produce savings of less than 36% of the previous fuel bill and frequently the figure is over 55%
 Water connections: ¾" BSPF standard for natural gas
 Empty weight: 8" w.g.
 2 flow and 2 return 1½" BSPF
 720 lbs (327 kgs)

Dimensions



Allowance clearance
 either side for installer

Model 1	
A	18½" (460mm)
B	28½" (721mm)
C	33" (838mm)
D	27¼" (705mm)
E	9¼" (232mm)
F	13¼" (333mm)
G	5¼" (130mm)
H	10¼" (260mm)
I	9¼" (232mm)
J	42" (1068mm)
K	47¼" (1200mm)
L	1¼" (45mm)
M	28½" (724mm)
Model 2	
A	22" (559mm)
B	28½" (721mm)
C	34¾" (884mm)
D	27¼" (705mm)
E	9¼" (232mm)
F	13¼" (333mm)
G	5¼" (130mm)
H	10¼" (260mm)
I	9¼" (232mm)
J	43¼" (1099mm)
K	48¾" (1241mm)
L	1¼" (45mm)
M	30¼" (768mm)
Model 260	
A	23" (584mm)
B	49" (1245mm)
C	37½" (953mm)
D	26½" (673mm)
E	14½" (368mm)
F	20½" (521mm)
G	6½" (165mm)
H	16½" (419mm)
I	16½" (419mm)
J	36¼" (920mm)
K	44½" (1135mm)
L	1½" (38mm)
M	32½" (826mm)

Also available: Model 3B Output 360,000 BTUs/hr (105.5kW). Model 650 Output 650,000 BTUs/hr (190kW)
 Model 4 Output 1¼ million BTUs/hr (366kW)

Electrical supply: All models: 220–240V 50Hz single phase

Parallel Operation: With our very simple parallel operation system it is possible to bank any reasonable number of units together without loss of efficiency. Thus three Model 260 units will easily cope with a load of 780,000 BTU/hr and so on. This feature is a convenience where loads increase as time goes on.

Archie Kidd (Thermal) Ltd. reserves the right, while maintaining the essential characteristics of the product described and illustrated, to amend the specification without notice.

All essential features protected by patent applications throughout the world.



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Design of the Kidd Boiler

Mr Archie Kidd, B.Sc., F.I.E.E., F.I.M.E.C.H.E., has been designing domestic thermal equipment since 1945, although his main commercial interest for many years was the very successful design and manufacture of dynamic machinery in the firm which bears his name.

