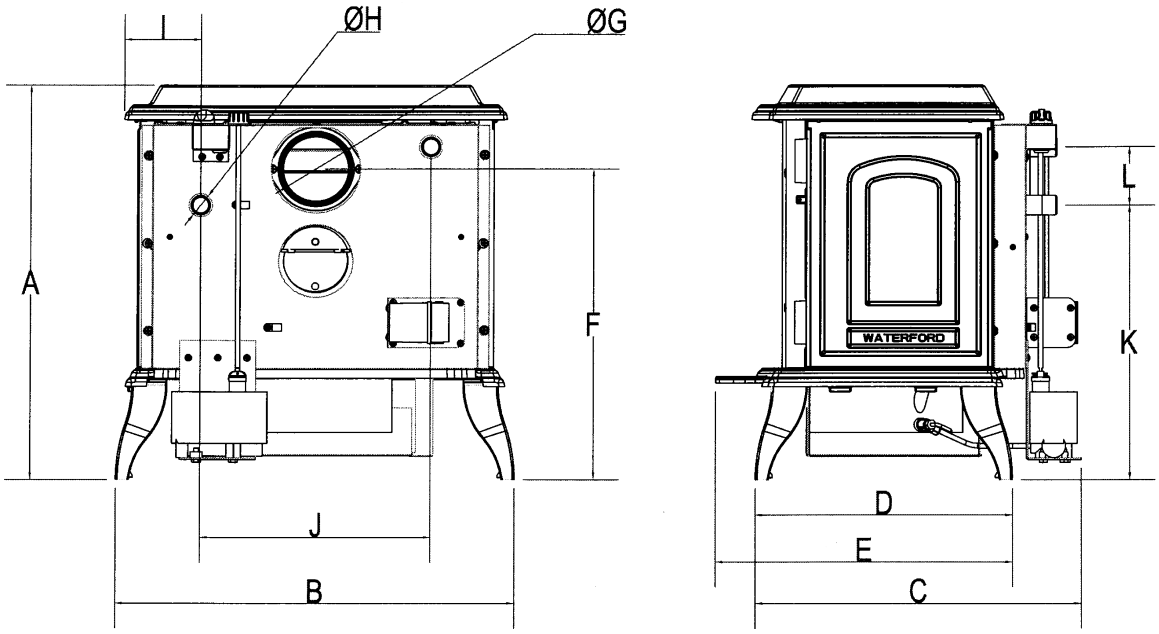
STANLEY

TURNING YOUR HOUSE INTO A HOME

ASHLING OIL DHW MODEL

Note: **This sheet details additional technical & installation information for the Ashling oil DHW Stove.**

SPECIFICATION



Dimensions	A	B	C	D	E	F	G	H	I	J	K	L
Metric (mm)	675	650	610	437	505	535	127	25	130	390	470	100
Imperial (inches)	26 5/8	25 5/8	24	17 1/4	19 7/8	21 1/8	5	1	5 1/8	15 3/8	18 1/2	3 7/8

Note: Dimensions stated may be subject to a slight +/- variation.

TECHNICAL DATA

Boiler Construction:	3mm S/Steel Grade 304 2B
Test Pressure of Boiler:	40 PSI (2.75 Bar)
Operating Temperature Limit:	96ºC (205ºF)
Boiler Capacity:	4.4 Ltr
Stove Weight:	119 kgs

All Technical Data are taken under laboratory conditions and may vary in use.

Valve Setting	Oil Consumption	Burner Input	Heat Output to Water
	cc/min	kW (Btu/hr)	kW (Btu/hr)
6	19	11.15 (38,060)	3.24 (11,040)
5	16.8	9.86 (33,650)	2.8 (9,550)
4	14.6	8.57 (29,240)	2.36 (8,050)
3	12.4	7.28 (24,835)	1.91 (6,520)
2	10.2	5.99 (20,430)	1.47 (5,010)
1	8	4.7 (16,020)	1.03 (3,520)

The installation should comply with the following, in addition to the regulations listed on page 4:

* BS 7593: Treatment of Water in Domestic Hot Water Systems.
* BS 7074: Part 1 & 2 Hot Water Supply.

DOMESTIC HOT WATER SYSTEM

Care should be taken to ensure that the domestic hot water installation is correctly installed and that it complies with all relevant codes of practice. If this appliance is being connected to an existing system, it is strongly recommended to check the following:

(a) The system is sound.
(b) The pipe work is adequately insulated.
(c) Are there any modifications necessary to make the domestic hot water system more efficient.

SAFETY VALVE

A non-adjustable 3 bar safety valve must be fitted to the primary flow pipe adjacent to boiler connection ensuring that any discharge will not create a hazard to occupants or cause damage to electrical components or property.

Only competent personnel should be employed to carry out work on your domestic hot water system.

PIPE FITTINGS

Materials used for installation work should be resistant, sound and should conform to the current editions of the following or their equivalent:

1.1 Ferrous Materials.
B.S. 4127 : Stainless Steel Tubes
B.S. 1387 : Steel Tubes
B.S. 1740 : Steel Pipe Fittings
B.S. 6956 : Jointing Materials

1.2 Non-ferrous Materials
EN 29453 : Soft Solder Albys
B.S. 864 : Compression Tube Fittings
B.S. 2871 & B.S. EN 1057 Copper and Copper Alloys.

DOMESTIC CYLINDER

We recommend the following when installing these systems:

* Minimum distance between the stove and the cylinder
* Pipes & cylinder are lagged
* Copper or stainless steel 28mm O.D. (1”) flow and return pipes
* Domestic Hot Water Cylinder Capacity 180 litres (40 Gallons). Indirect System should be “finned coil” type to B.S. 1566 & B.S. 699.

PLUMBING CIRCUIT

The gravity circuit consists of the domestic hot water tank of 135 - 180 litres capacity, fixed in an upright position, recommended for hot water storage and it should be connected to the boiler by 25mm (1") ID flow and return piping. The pipes should not exceed 7.8m (25'6") each in length and anything in excess of 4.6m (15ft.) must be fully lagged. The shorter the run of pipe work the more effective the water heating efficiency and to this end, the cylinder should be fully lagged. For safety's sake do not have any valves on this circuit.

Fig.1 **INDIRECT SYSTEM**

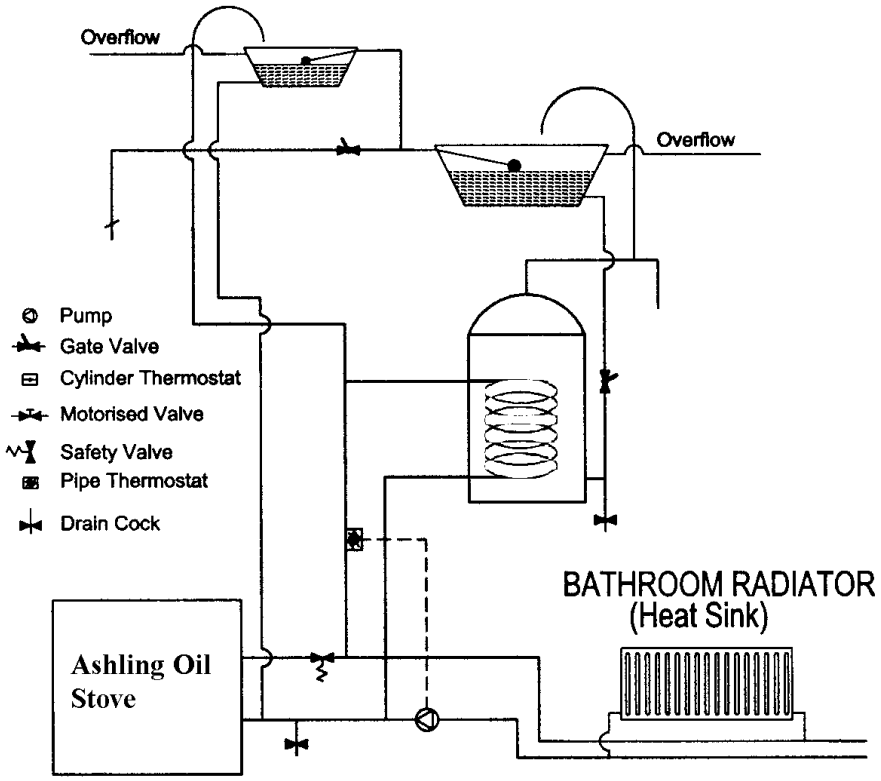
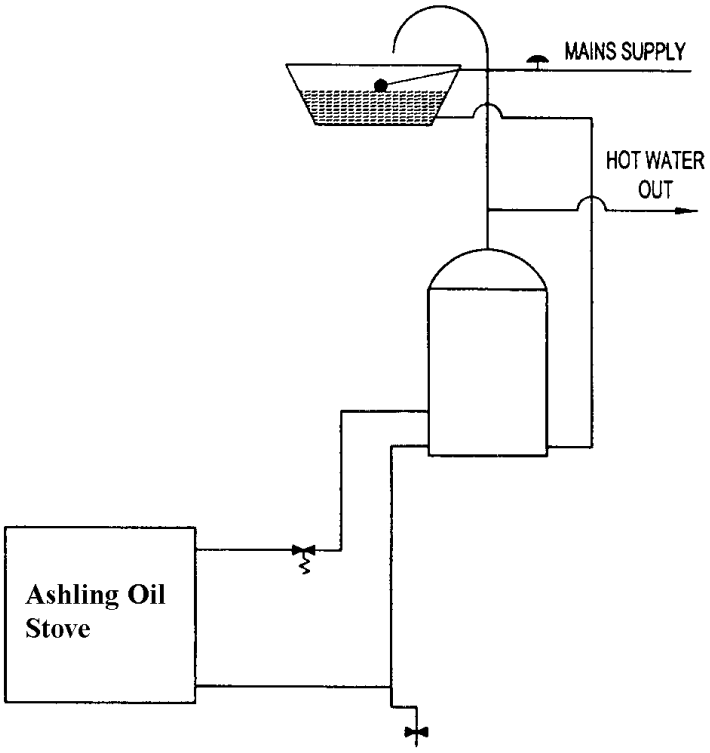


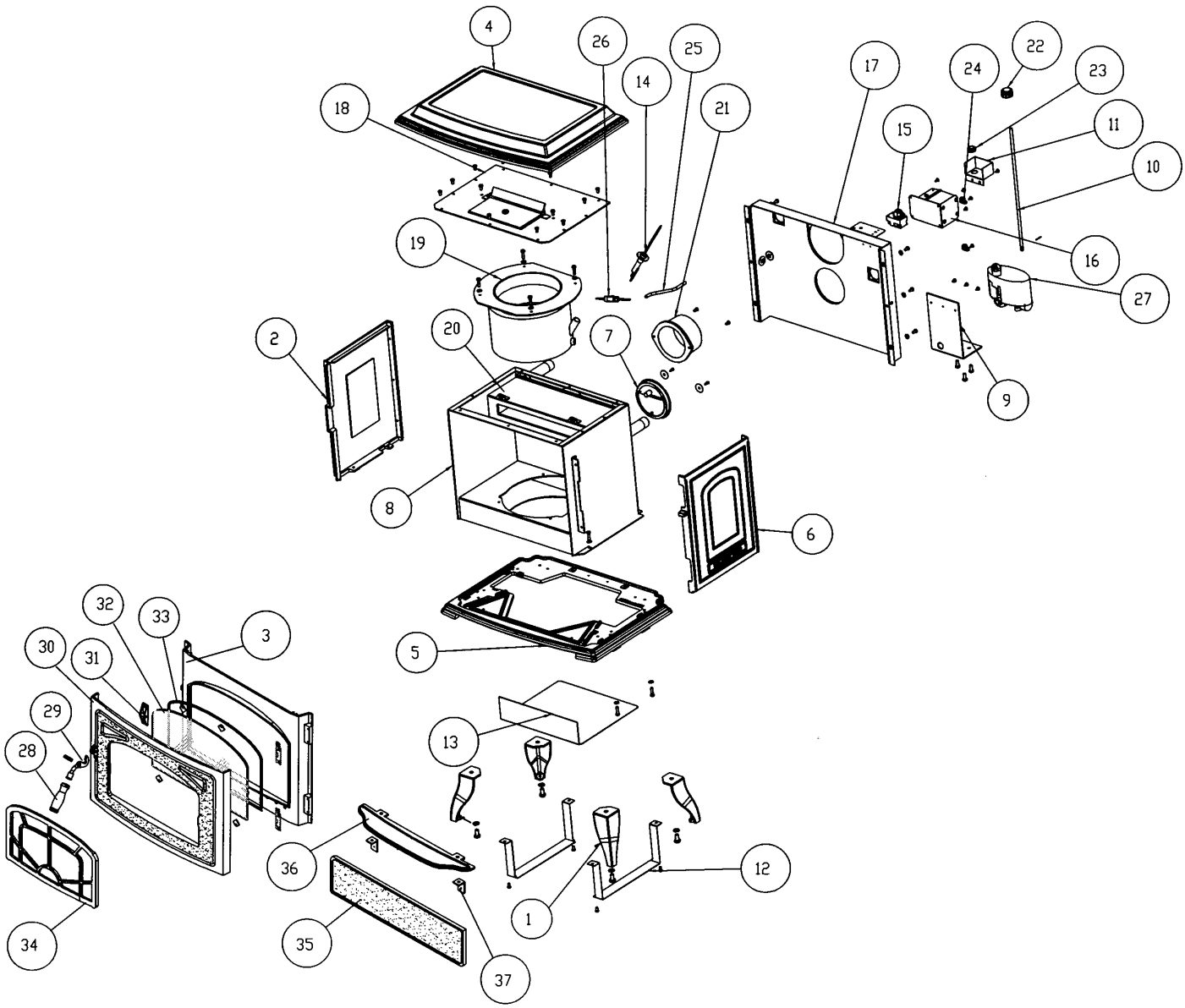
Fig.2 **DIRECT SYSTEM**



INDIRECT SYSTEM ONLY

To off-load excess hot water generated, it may be necessary to install a heat-sink radiator.

ASHLING OIL STOVE EXPLODED VIEW



1. Leg (Short)
2. LH Side Panel
3. Front
4. Hob
5. Base
6. RH Panel
7. 5” Draft Regulator
8. Combustion Chamber
9. Valve Support Bracket
10. Valve Control Rod
11. Cable Protection Box
12. Heat Shield Bracket
13. Heat Shield
14. Ignition Probe C/W Leads
15. Counter Timer with Knob
16. Transformer C/W Leads & Bracket
17. Heat Shield Assembly
18. Combustion Chamber Roof Assy
19. Burn Pot Assembly
20. Ashling Boiler Assembly
21. Flue Outlet 125 Dia.
22. Control Knob
23. Grommet
24. P-Clip (RS 543-361)
25. Annealed Copper Pipe
26. Scrubber
27. Oil Valve
28. Timber Handle
29. Door Latch
30. Front Door
31. Door Catch
32. Door Glass
33. Glass Retaining Clip
34. Door Grill
35. Sump Cover
36. Front Ashtray
37 Sump Cover Bracket

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