

This information refers to the following products

Agamatic Oil-fired Boiler Model OF60 (1971-1976)

Please note that some original pages may not appear in original numerical order, but have been rearranged for clarity or deleted if not appropriate.

WARNING

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OPERATING INSTRUCTIONS

for

Agamatic OF60 *Oil fired* Boiler



Rating: 60,000 Btu/h. 17.5 kW.
Oil Rate: 38 cc/min.
Electric Supply: 200/240V AC single phase 50Hz.
Fuel: The only suitable fuel is commercial grade 28 secs. kerosene.

LIGHTING

Open all oil valves and depress trip lever on right-hand side of oil control valve.

With the thermostat OFF, switch on the electric power. The red lamp should light.

Turn the thermostat knob to the desired temperature.

The boiler will now operate automatically with the fan motor switching on after about 20 seconds and the burner flame being established from cold within a $7\frac{1}{2}$ minute cycle. Should there be for any reason a flame failure, this is indicated by the yellow lamp lighting indicating lock-out at the end of the cycle and this is remedied by turning the thermostat to OFF and back to ON where the cycle recommences.

When the water is heated to the temperature set by the thermostat, the oil supply to the burner is shut off but the fan motor continues to run for a while ensuring that the oil in the burner pot is consumed.

When the water cools, the lighting cycle will commence automatically. Water temperature may be varied by adjusting the thermostat knob.

TO EXTINGUISH THE BURNER

Short Term

Turn the thermostat to OFF and when the fan motor has stopped several minutes later, disconnect the electric power.

Long Term

Raise the trip lever on the right-hand side of the oil control valve until it clicks.

Shut all oil valves.

SERVICING

The boiler should be serviced by a competent engineer every six months.

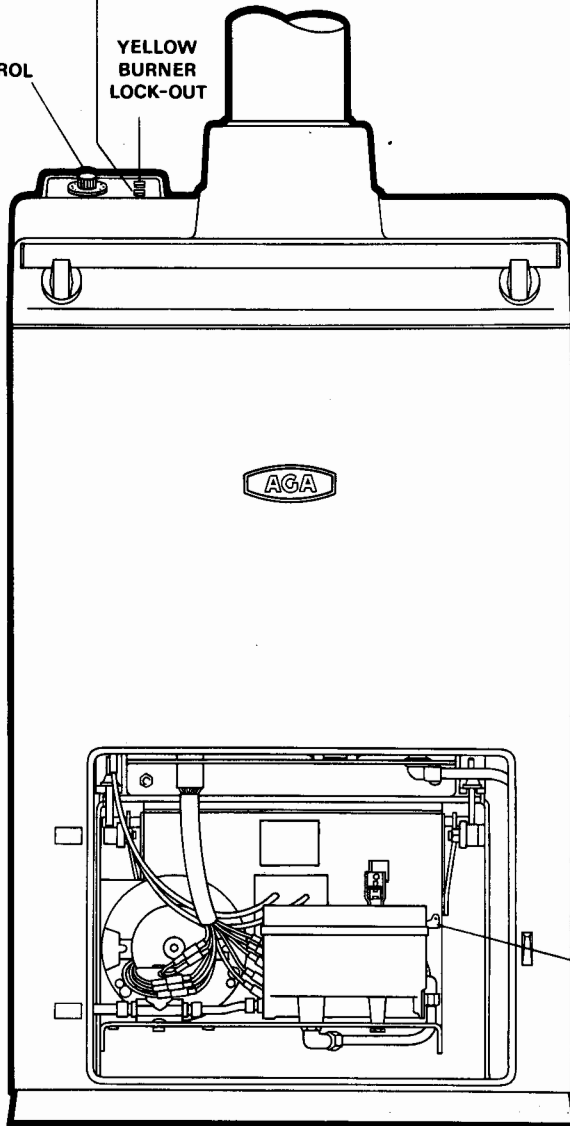
POWER FAILURE

No action is needed. The oil supply is cut off automatically and if the fire is alight at the time it will burn out within a short space of time. When the power is restored, the boiler will again operate normally.

RED MAINS LAMP

THERMOSTAT CONTROL

YELLOW
BURNER
LOCK-OUT



TRIP LEVER



AGAMATIC Oil Fired BOILER

Model OF60

Installation Instructions

Performance

Rated output — 60,000 Btu/h. — 17.5 kW.

The boiler is intended for heating radiation or hot water or a combination of the two.

Recommended maxima assuming an average heat transmission from pipes and radiators of 160 Btu/h plus 10,000 Btu/h for hot water.

Heating only — 375 sq. ft.

Combined heating and hot water — 40 gallon cylinder plus 310 sq. ft.

Hot water only — 50 to 100 gallon cylinder.

Hot Water System

The cylinder must be of the indirect type and it should be vertical, as close as possible to the boiler and lagged. Flow and return pipes should not exceed 30 feet each in length and pipes longer than 15 feet should be lagged.

The Site

Attention is drawn to the following requirements:

England and Wales (except the area of the former L.C.C.)
— Building Regulations 1965.

Area of the former L.C.C. — London Building (Amendment) Act 1935.

Scotland — Scottish Building Regulations.

Hearth

The hearth must be solid, level and of incombustible material.

Chimney

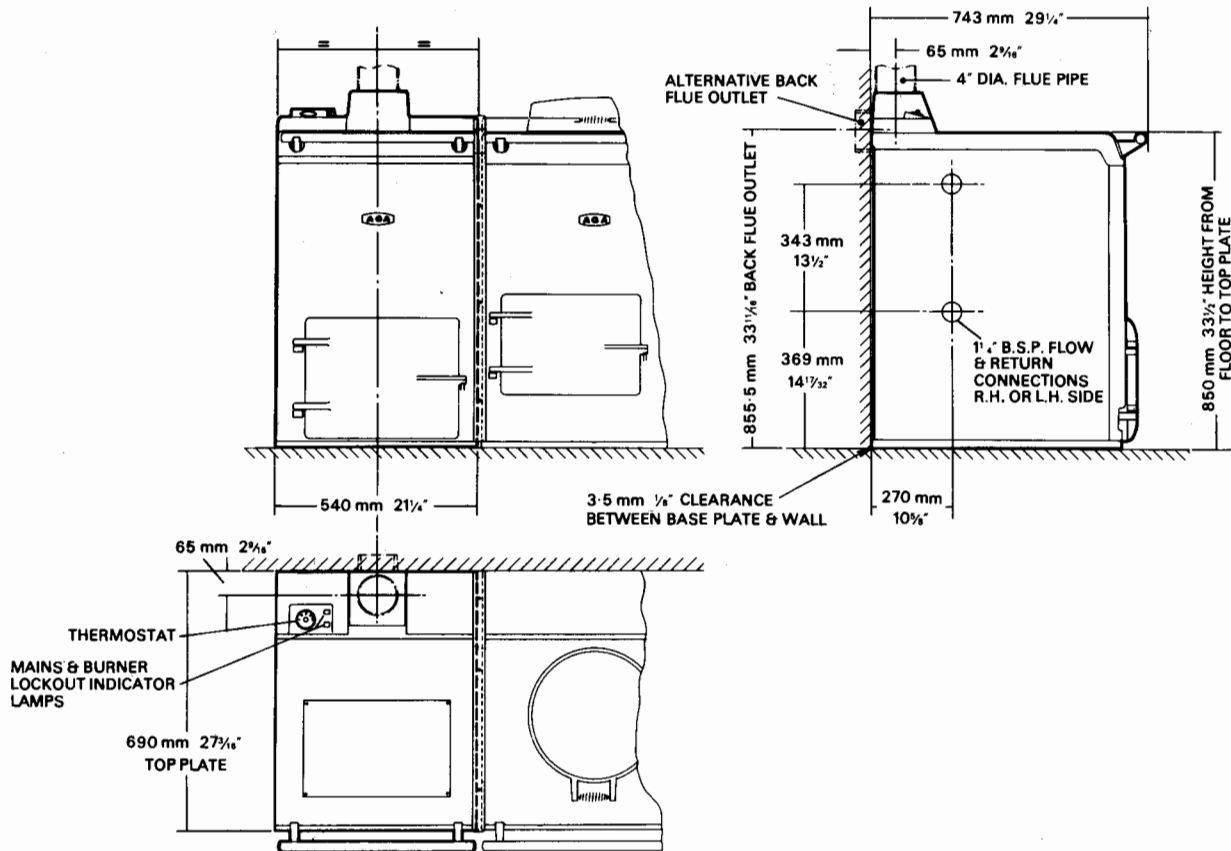
The chimney should be not less than 6" internal diameter and should be swept before the appliance is installed.

The top or back flue outlet is suitable for 4" cast iron flue pipe, fitted socket upwards and all joints and the connection to the chimney and boiler must be sealed. Provision should be made for sweeping the chimney and all bends must have cleaning doors. Square bends and horizontal runs must not be used.

Fill any pockets or voids in the chimney or extend the flue piping through such cavities and seal into the chimney.

If high draughts are expected, a draught stabiliser should be fitted to the chimney.

Flues consisting entirely of flue pipe are not recommended. Asbestos cement pipes should not be used within 6 feet of the appliance.



Oil Supply

Attention is drawn to BS.799 Part II and to any local Bye-laws and Regulations. A minimum storage capacity of 250 gallons is suggested but when installed together with an Aga Cooker, a storage of 600 gallons is recommended.

Oil Tank

The tank may be any reasonable distance from the boiler provided the base of the tank is not less than 1' 6" and the top of the tank not more than 10' 6" above the floor on which the boiler is placed. The tank should be of welded steel, protected on the outside only and fixed with a fall of not less than 1" to the drain connection.

Filling Pipe

The filling pipe should terminate in a convenient position with a male 2" BSP connection fitted with non-ferrous dust cap and chain, and the pipe should be as short as possible, free from sharp bends and should preferably be arranged to drain into the storage tank. If the connecting point is below the top of the tank a screw down valve should be fitted.

Vent Pipe

A vent pipe of not less than 2" diameter should be provided at the highest end of the tank with an open end turned downwards and fitted with an open mesh wire cage; gauze must not be used. The pipe must be free from sharp bends and have a continuous rise.

Drain Valve

A drain connection with screw down valve must be fitted to the lowest part of the underside of the tank.

Gauge

A reliable contents gauge should be fitted to the tank.

Outlet and Pipe Line

The outlet connection should be on the side of the tank, at the higher end and not less than 2" above the tank bottom. A screw down stop valve and fine filter should be fitted. The fuel pipe may be in iron or copper not less than $\frac{3}{8}$ " outside diameter. Screwed connections must be sealed with a suitable oil resistant jointing compound; copper tube should be annealed, refrigeration quality, with flared joints. The pipe line must be free from air locks and must either fall continuously from the tank to the boiler or fall immediately from the tank to a low point and rise continuously to the boiler.

Oil Tank and Pipe Connections

NOTE: Galvanised tubes and fittings must NOT be used. See sketch.

Electric Supply

A 200/250 volt 50 Hz. AC supply, adequately earthed is required, near to the boiler, preferably by means of a fused plug and switched socket with indicator lamp. If an external control such as a time switch or room thermostat is required, it should be connected across connections L and II on the control box terminal block and the link removed.

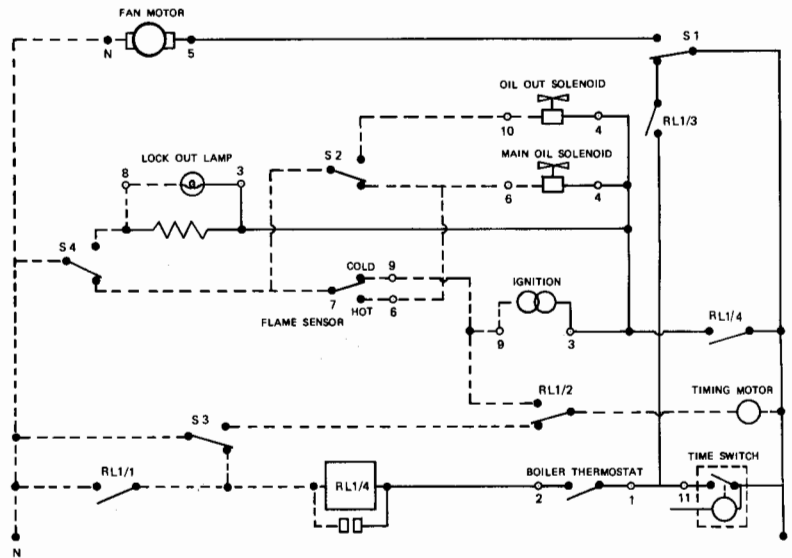
Fuel

Commercial Grade Kerosene, 28 secs. Redwood.

Installation

The boiler will be assembled on site by the Authorised Aga Distributor.

203 LV GYRO PAC SCHEMATIC WIRING DIAGRAM



FILLING CONNECTION
2" B.S.P. MALE
WITH DUST CAP

LEVEL INDICATOR

VENT, 2" B.S.P. WITH OPEN
END AND WIRE CAGE

OIL TANK

OIL LINE, $\frac{3}{8}$ " MIN. DIA.
M.STL. OR COPPER, WITH
VALVE AND STRAINER

25 mm
1" MIN.

51 mm
2" MIN.

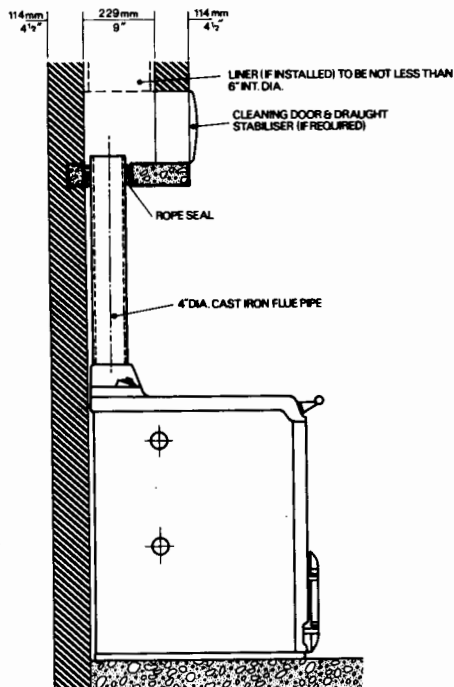
3200 mm
10'-6" MAX.

DRAIN VALVE

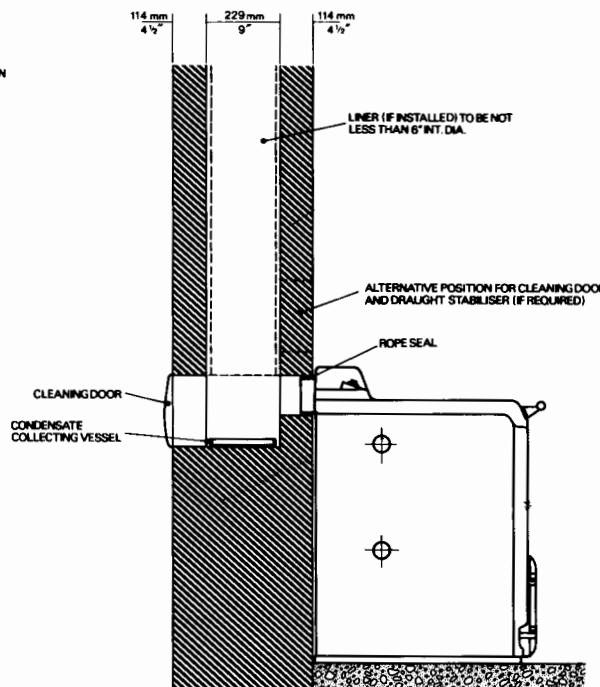
762 mm
1'-6" MIN.

ALTERNATIVE RUNS FOR OIL LINE

Flue Layouts



FIXED IN A PREPARED RECESS

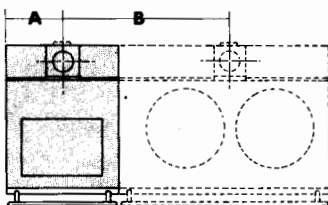


FIXED AGAINST FLAT WALL

OC COOKER

A = 10 5/8" (270 mm)

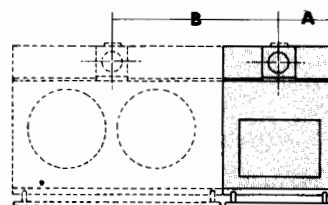
B = 31" (785 mm)



OC COOKER

A = 10 5/8" (270 mm)

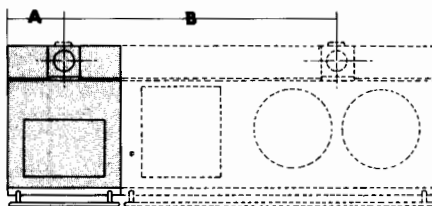
B = 29" (735 mm)



OE COOKER

A = 10 5/8" (270 mm)

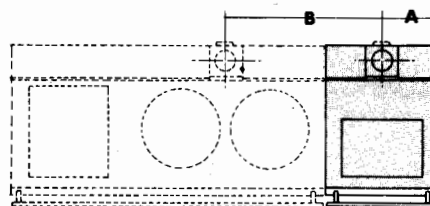
B = 50 1/2" (1285 mm)



OE COOKER

A = 10 5/8" (270 mm)

B = 29" (735 mm)



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