Super 80

WALL MOUNTED FAN ASSISTED COMBINATION GAS BOILER

OPERATING INSTRUCTIONS FOR THE USER
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GAS SAFETY (INSTALLATION AND USE) REGULATIONS 1984.
It is the law that all gas appliances are installed by
a competent person, in accordance with the above
regulations. Failure to install appliances correctly
could lead to prosecution. It is in your own
interest, and that of safety, to ensure that the law
is complied with.

WARNING It is essential that the appliance is
correctly earthed. An electricity supply of 230V ~ 50Hz is required
fused at 3 Amp.

Read these instructions carefully before
attempting to operate the appliance.

1 INTRODUCTION

The Sime “Super 80” is a fully automatic, wall
mounted, fan assisted balanced flue combination
boiler.

When operating in winter mode, the appliance
provides central heating as required and produces
instantaneous hot water upon demand up to a
maximum output of 24.0 kW (82,000 Btu/h).
When operating in summer mode, the central
heating is not operational however the appliance
continues to supply hot water whenever it is
required.

The heat output is automatically controlled by the
fully modulating gas valve (within its pre-set limits),
and there are user adjustable thermostats to control the temperature of both central heating
(C.H.) and domestic hot water (D.H.W.).

Temperature and pressure gauges are fitted, and
an overheat thermostat is incorporated to protect
against fault conditions.

2 APPLIANCE FUNCTION

A demand for hot water will be sensed by the
appliance detecting water flow (providing that the
flow rate is above 2.8 l/min (0.62 gall/min). The fan
will start and the pilot will light, immediately
followed by the main burner at full output.
If the draw off rate is near the maximum design
flow rate the appliance will run continuously at full
output until a tap is either turned off or the flow
rate is reduced in which case the heat output will
reduce accordingly to maintain a steady
temperature.

FIG. 1

KEY
A Summer/winter switch
B C.H. thermostat
C D.H.W. thermostat
D Pressure gauge
E Overheat thermostat reset
F Viewing Window
G Gas service cock

Hot water is made available almost immediately at
the appliance outlet, but the final temperature and
time taken for the hot water to reach a tap
depends upon the thermostat setting, the rate at
which water is drawn off, and the length of the
pipe between the boiler and the tap.

When the tap is turned off, the appliance will revert
to C.H. mode (if set on winter position) otherwise
the burner and pilot will be extinguished pending
the next demand for hot water.

3 OPERATING INSTRUCTIONS

TO LIGHT THE APPLIANCE: (Fig.1)

1) Check that the electricity supply is off. Check
that the gas supply is on.
2) Turn the Summer/Winter switch (A) to
Summer (Water only) position ‘•’.
3) Switch on the electricity supply and fully open
any D.H.W. tap. The burner will light. Check
that the burner has lit by looking through the
viewing window (F). If the burner fails to light,
press the overheat thermostat reset button (E)
one and the burner should now light. Turn off
the tap.
4) Check that the room thermostat (If fitted) is
calling for heat. Turn the heating thermostat
(B) to maximum (fully clockwise).
5) Turn the Summer/Winter switch to the Winter
position ‘d’ and the burner will light to serve
the heating load.
6) Set the Summer/Winter switch (and the room thermostat if fitted), to the desired position and set the required temperature for the C.H. and D.H.W. by rotating the thermostats (B and C) clockwise to increase or anticlockwise to decrease the temperature. **NOTE** that when operating in Winter mode, priority is automatically given to providing hot water when the demand arises.

TO TURN THE APPLIANCE OFF:

**For Short Periods**
Set the Summer/Winter switch (A) to Summer position ('X'). When required - restore the switch to the Winter position 'd'.

**For Longer Periods**
Set the Summer/Winter switch (A) to Summer position ('X'). When required - restore the switch to the Winter position 'd'.
Do not isolate the mains electricity or gas supply if frost protection is required. The built in frost thermostat will provide frost protection only if the gas and electrical supplies are maintained.

**NOTE:** where gas and electrical supplies must be turned off, the entire system should be drained, including the domestic water system.

4 MINIMUM CLEARANCES
The following MINIMUM CLEARANCES must be available for servicing the appliance:

- Above the appliance casing: 200 mm (8 in)
- At the R.H.S: 90 mm (3½ in)
- At the L.H.S: 5 mm (¼ in)
- Below the appliance casing: 200 mm (8 in)
- In front of the appliance: 450 mm (18 in)

5 ROUTINE SERVICING
To ensure continued efficient operation of the appliance, it is recommended that it is checked and serviced as necessary at regular intervals. The frequency of servicing will depend upon the particular installation conditions and usage but in general once a year should be adequate. It is the law that any service work must be carried out by a competent person such as British Gas or other CORGI registered personnel.

6 GENERAL INFORMATION
6.1 APPLIANCE OVERHEAT THERMOSTAT
The appliance is fitted with a safety cut out thermostat. In the event of overheating this will interrupt the power supply and prevent the appliance from functioning. If this occurs, allow the appliance to cool and press the overheat thermostat reset button (E) once and light the boiler as described in Section 3 above. If the cut-out condition is repeated, turn off the electrical supply and consult your installer or service engineer.

6.2 PRESSURE/TEMPERATURE GAUGE
The gauge (D) on the fascia panel indicates the approximate system temperature and pressure. If the normal running pressure is seen to decrease over a period of time there is a water leak and you should consult your installer or service engineer.

6.3 ELECTRICAL SUPPLY
This appliance MUST be connected to the supply via a fused, double pole switch, having 3 mm (⅛ in) contact separation in both poles, serving only the boiler and system controls.

The fuse rating should be as per the original instructions.

A competent, qualified electrician MUST be consulted.

6.4 VENTILATION
If the appliance is installed in a compartment this MUST NOT be used for storage purposes. Any ventilation provided for the appliance during installation MUST NOT be blocked and a periodic check must be made to ensure that the vents are free from obstructions.

6.5 CLEANING
Use only a damp cloth and mild detergent to clean the appliance outer casing. DO NOT use abrasive cleaners.
7 SAFETY

It is essential that the instructions in this booklet are strictly followed for the safe and economical operation of this appliance.

The appliance functions as a fan assisted balanced flue unit. The flue terminal MUST NOT BE OBSTRUCTED under any circumstances. If damaged, turn off the appliance and consult the installer, service engineer, or local Gas Region.

If it is known or suspected that a fault exists on the appliance it MUST NOT be used until the fault has been rectified by a competent person.

WARNING

IF A GAS LEAK IS SUSPECTED OR EXISTS, TURN OFF THE GAS SUPPLY TO THE APPLIANCE AT THE GAS SERVICE COCK. DO NOT OPERATE ANY ELECTRICAL SWITCHES. DO NOT OPERATE ANY ELECTRICAL APPLIANCE. OPEN ALL WINDOWS AND DOORS. DO NOT SMOKE. EXTINGUISH ALL NAKED LIGHTS. CONTACT THE LOCAL GAS REGION IMMEDIATELY.