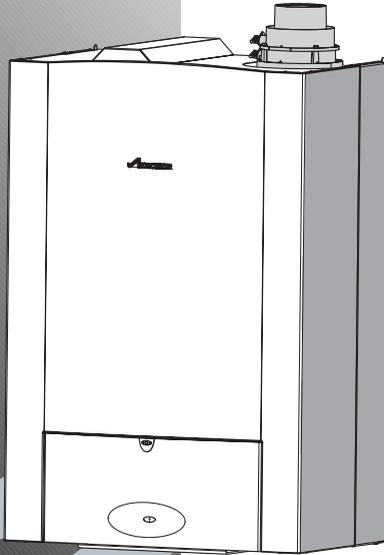


GREENSTAR DANESMOOR WALL MOUNTED OIL 12/18 & 18/25

WALL MOUNTED OIL FIRED CONDENSING BOILER

**FOR FULLY PUMPED OPEN VENT OR SEALED CENTRAL HEATING
SYSTEMS AND DOMESTIC HOT WATER CYLINDERS**



**THIS BOILER IS USED WITH KEROSENE
(28 SECOND OIL) ONLY**

USER INSTRUCTIONS & CUSTOMER CARE GUIDE

 **WORCESTER**
Bosch Group

CONTACT INFORMATION

Worcester, Bosch Group:

Service call centres:

UK TEL: 08457 256206
FAX: 08457 757536
SCOTLAND ONLY FAX: 01506 441687

Other enquiries: TEL: FAX:
MAIN RECEPTION: 01905 754624 754619
TECHNICAL: 08705 266241
SPARES: 01905 752571
LITERATURE: 01905 752556
SALES: 01905 752640
WEBSITE: www.worcester-bosch.co.uk

WATER TREATMENT:

FERNOX 01799 550811
www.fernox.com

SENTINEL 0800 389 4670
www.sentinel-solutions.net

FLUE TERMINAL GUARDS:
WORCESTER, BOSCH GROUP

OIL FIRING TECHNICAL ASSOCIATION:

OFTEC 0845 6585080
www.oftec.org

USER INSTRUCTIONS & CUSTOMER CARE GUIDE

PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE OPERATING YOUR APPLIANCE.

THESE INSTRUCTIONS ARE APPLICABLE TO THE WORCESTER, BOSCH GROUP APPLIANCE MODEL(S) STATED ON THE FRONT COVER OF THIS MANUAL ONLY AND MUST NOT BE USED WITH ANY OTHER MAKE OR MODEL OF APPLIANCE.

IF YOU ARE IN ANY DOUBT CONTACT THE WORCESTER, BOSCH GROUP TECHNICAL HELPLINE.

PLEASE KEEP THESE INSTRUCTIONS WITH THE INSTALLATION AND SERVICING INSTRUCTIONS IN A SAFE PLACE OR WITH THE APPLIANCE AFTER INSTALLATION OR SERVICING.

DO NOT INTERFERE WITH ANY SEALED COMPONENTS.

THIS APPLIANCE SHOULD ONLY BE OPERATED BY RESPONSIBLE ADULTS WHO HAVE BEEN INSTRUCTED IN, AND UNDERSTAND ITS OPERATION AND ARE AWARE OF ITS OPERATING CONDITIONS AND EFFECTS.

THIS APPLIANCE SHOULD NOT BE OPERATED BY CHILDREN.

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INTRODUCTION

USING YOUR
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NOTES

OIL SMELLS, LEAKS OR FUMES FROM THE APPLIANCE:

- ▶ Extinguish any naked flames.
- ▶ Open windows and doors.
- ▶ Switch off the appliance electricity supply.
- ▶ Isolate the fuel supply to the boiler.
- ▶ Contact boiler engineer.

HEALTH & SAFETY:

The appliance contains no asbestos and no substances have been used in the construction process that contravene the COSHH Regulations (Control of Substances Hazardous to Health Regulations 1988). Where applicable, the CE mark indicates compliance with relative EU Directives.

COMBUSTIBLE AND CORROSIVE MATERIALS:

Do not store or use any combustible materials (paper, thinners, paints etc.) inside or within the vicinity of the appliance.

The combustion air must be kept clear of chemically aggressive substances which can corrode the appliance and invalidate any warranty.

FITTING & MODIFICATIONS:

Fitting the appliance and any controls to the appliance may only be carried out by a competent engineer in accordance with the relevant Installation Regulations.

Flue systems must not be modified in any way other than as described in the fitting instructions.

SAFETY PRECAUTIONS

Any misuse or unauthorised modifications to the appliance, flue or associated components and systems could invalidate the warranty. The manufacturer accepts no liability arising from any such actions, excluding statutory rights.

This appliance is suitable for use with kerosene (28 second oil) only, no other fuel must be used.

SERVICING:

The user must have the system regularly serviced by a competent, qualified OFTEC registered engineer using approved spares, to help maintain the economy, safety and reliability of the appliance.

The appliance should be serviced once each year after installation unless the installation conditions and usage demand more frequent services.

DO NOT OPERATE THE APPLIANCE WHEN:

- ▶ The appliance, flue or system is incorrectly fitted, faulty or damaged.
- ▶ The flue terminal outlet fitted on the outside wall or roof is obstructed or damaged.
- ▶ There are fumes, fuel leaks or fuel smells from the fuel supply, appliance or flue system.
- ▶ The system is frozen, empty or if a pressurised system is low on pressure.
- ▶ The condensate pipe is blocked or restricted.
- ▶ The appliance clearances, as shown in the installation manual, are inadequate.
- ▶ The air supply is restricted or vents damaged or blocked.

EXCELLENCE COMES AS STANDARD

Thank you for purchasing a Greenstar oil fired condensing boiler from Worcester, Bosch Group. The company prides itself on manufacturing boilers to the strictest quality control standards throughout every stage of production.

Worcester, Bosch Group has led the field in innovative appliance design and performance for more than 40 years. This heritage means all products are of exceptional quality and proven reliability.

The condensing range in particular, is extremely energy efficient, converting more of the fuel consumed into heat offering you economical running costs and value for money. It sits in SEBUK band A, at the top of the energy rated appliances available.

There is also the assurance of our no-nonsense parts and labour guarantee - backed up by an optional servicing and maintenance contract to keep your boiler operating at peak condition and efficiency.

To find out more about Worcester, Bosch Group, use the 'Contact Information' shown on the inside front cover.

Read these instructions carefully to get the best from your appliance.

CENTRAL HEATING SYSTEMS:

During the first few hours of operation of the central heating system, check that all radiators are being heated at an even rate.

If the top of a radiator is at a lower temperature than the bottom then it should be vented by releasing air through the venting screw at the top of the radiator. Ask your installer to show you how this is done. Repeated venting will reduce the quantity of water in the system and this must be replenished for safe and satisfactory operation of the appliance.

Vented systems:

When excessive venting or water leaks are found in the system you must contact a service engineer to inspect the installation and rectify any fault.

Only use additives compatible with the appliance and system. Use of incompatible additives can cause damage and will invalidate the appliance guarantee.

Frost protection:

Use a suitable anti-freeze/inhibitor at the correct strength to protect against freezing.

A frost thermostat should be fitted to the system if the system is exposed to low temperatures.

Sealed heating systems:

Where the appliance is fitted to a sealed heating system a pressure gauge should be fitted to the system close to the appliance. Your installer will inform you of the minimum and maximum pressure which must be indicated on the pressure gauge.

GENERAL INFORMATION

Regularly check the pressure is maintained and contact your installer or maintenance engineer if there is a noticeable, permanent drop in pressure. If the system loses pressure it should be repressurised and the cause of the loss investigated.

CONDENSATE:

This is a high efficiency appliance using condensing technology which will under normal operation produce a regular discharge of condensate to drain and at times, give out a plume of water vapour from the flue terminal.

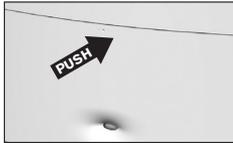
ROOM THERMOSTAT:

A room thermostat must be fitted to control the central heating. Refer to instructions supplied with the room thermostat for information on siting and setting.

THERMOSTATIC RADIATOR VALVES:

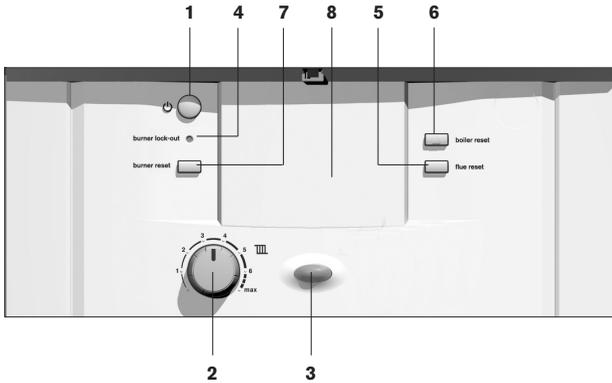
It is recommended that this type of valve is fitted to all but one of the radiators (or at least those in the sleeping accommodation). The remaining radiator, which must be where the room thermostat is located, should be un-controlled and must be left open.

CONTROLS

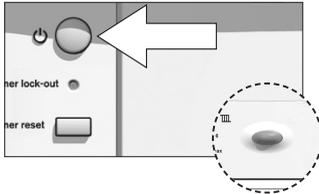


TO GAIN ACCESS TO THE BOILER CONTROLS, PUSH AT THE TOP OF THE FLAP AND RELEASE

USING YOUR APPLIANCE



- | | |
|-------------------------------|-------------------------------------|
| 1. POWER SWITCH | 6. BOILER OVERHEAT RESET BUTTON |
| 2. TEMPERATURE CONTROL | 7. BURNER LOCKOUT RESET BUTTON |
| 3. POWER INDICATOR | 8. POSITION FOR OPTIONAL PROGRAMMER |
| 4. BURNER LOCKOUT INDICATOR | |
| 5. FLUE OVERHEAT RESET BUTTON | |



OPERATING THE BOILER

SWITCHING THE BOILER ON/OFF

Switching on

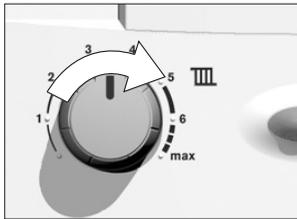
- ▶ Switch on the boiler by pressing the power button.

The indicator light shows blue

Switching off

- ▶ Switch off the boiler by pressing the power button.

The blue indicator light goes out.



SETTING THE TEMPERATURE

- ▶ Turn the temperature control to the desired level, between 55°C and 81°C

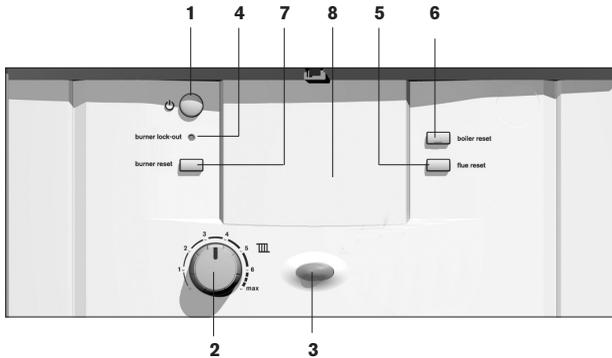
CONTROLLING CENTRAL HEATING

- ▶ Set the timer to the correct time.
- ▶ Set room thermostat to the desired room temperature.
- ▶ Set the thermostatic radiator valves to the desired settings.

FROST PROTECTION

- ▶ Leave power button on.
- ▶ Add a suitable anti-freeze fluid to the water in the central heating system.
- ▶ If remote pipework is likely to be subjected to freezing conditions, ensure that the installer has fitted a frost thermostat in the area to protect the pipework.

OPERATING THE BOILER



USING YOUR
APPLIANCE

FAULT CONDITIONS:

NORMAL OPERATION:

POWER INDICATOR (3) ON, (if there is a central heating or hot water demand there will be a light illuminated on the programmer).

BURNER LOCKOUT:

LOCKOUT INDICATOR (4) ON

1. Check oil level in the oil storage tank.
2. Press button (7). Boiler should fire.
3. If no response, wait 2 minutes - press reset button (7) again.
4. If lockout light stays on, do not attempt further resets. Contact your service engineer for advice.

OVERHEAT TRIPPED OUT:

POWER INDICATOR (3) ON, LOCKOUT INDICATOR (4) OFF, demand displayed on the programmer, no heating/hot water.

1. Check the setting of the room thermostat/tank thermostat.
2. Press the reset buttons (5 & 6). Boiler should fire.
3. If the boiler stays off, contact your service engineer for advice.

POWER OFF:

POWER INDICATOR (3) OFF.

1. Ensure there is power supplied to the boiler.
2. Check that the power switch (1) has not been turned off.
3. If the power indicator (3) stays off, contact your service engineer for advice.

TIPS ON ENERGY SAVING

Heating economically:

The boiler is designed to provide a high level of comfort while keeping oil consumption and the resulting environmental effect as low as possible.

The temperature control on the boiler should be set as low as possible while still maintaining a comfortable room temperature.

The temperature of each room can be set individually using the thermostatic radiator valves (except the primary room with the room thermostat).

Roof insulation:

Around 30% of the heat loss from a property is through the roof. Replace any old insulation with new insulation, preferably to a minimum thickness of 200mm.

Window frames:

Single glazed windows, particularly those with steel frames, can lose a great deal of heat.

Consideration should be given to replacement with PVCu or wooden framed double glazed units.

Curtains:

Lined curtains, or heavier full length curtains can provide excellent insulation. However, always ensure that the curtains do not drape over radiators.

Draughts:

Try to ensure that draughts around doors, windows, letterboxes and keyholes etc., are reduced by using a suitable draught excluder.

Warning: do not block or seal any air vents that are installed to ensure the central heating boiler (or other appliance) operate safely.

Room thermostats:

Reducing the setting of the room thermostat by 1°C can reduce fuel consumption by up to 10%.

New control systems:

Upgrade your heating control system with the latest equipment available. The minimum level of control for a heating system is a programmer/timer, interlocking room thermostat and thermostatic radiator valves.

TIPS ON ENERGY SAVING

Radiators:

More often than not radiators will be sited underneath a window, so the warm air from the radiator heats the colder incoming air from the window.

The performance of the radiator will be affected if the curtains are allowed to drape over the radiator or shelves are fitted above it.

The positioning of furniture and tables in front of the radiator should also be avoided.

It is advisable to manually adjust all radiator valves every 2-3 months to prevent them from sticking. It is also important that the plastic tops of all valves are always in position and not cracked or damaged to help prevent accidents. Care should be taken when vacuum cleaning carpets to avoid damage to valves and pipework.

The heating system and the outputs of the radiators have been carefully selected by your installer. The temperature obtainable in any given room is dependent on all radiators being operated at the same time. If you decide to turn off radiators in unused rooms, spare bedrooms etc., you may experience slightly lower room temperatures in rooms adjacent to unheated rooms.

ENERGY
SAVING

MAINTAINING YOUR APPLIANCE

Your new appliance represents a long term investment in a reliable, high quality product.

In order to realise its maximum working life and to ensure it continues to operate at peak efficiency and performance, it is essential that servicing and maintenance checks are performed at least once a year by a competent person.

If you would like to know more about a Worcester, Bosch Group service contract, please tick the appropriate box on your warranty registration card.

If your appliance requires servicing please contact a Worcester, Bosch Group contact centre (see inside front cover for details).

Maintenance tips:

Regularly check the oil level in the tank.

Regularly check the system pressure, ask your installer for guidance.

Do not obstruct the flue outlet or the air inlet.

FAULT FINDING

This table gives information on basic operating system problems.

In the unlikely event of a boiler fault please read the following page thoroughly before contacting Worcester, Bosch Group.

Problem	Cause	Remedy
Desired room temperature is not reached	Thermostatic radiator valve(s) set too low	Increase thermostatic radiator valve setting(s)
	Room thermostat set too low	Increase room thermostat setting
	Temperature control on boiler set too low	Increase temperature control setting
	Air trapped in heating system	Bleed radiators and, if fitted to a sealed system, recharge heating system
Desired room temperature exceeded by large amount	Radiators are too hot	Turn down thermostatic radiator valves / room thermostat Reduce temperature control on boiler
No display or display unit does not respond	Momentary power failure	Switch off boiler at master switch, wait a few seconds then switch on again
Hot water temperature too low	Hot water not in timed period on programmer	Check setting
	Hot water tank temperature set too low	Check setting
	Temperature control on boiler set too low	Check setting

MAINTENANCE

FAULT OR BREAKDOWN

This appliance is supported in the UK by Worcester, Bosch Group, part of Bosch Thermotechnology Ltd.

Specialist factory trained Service Engineers are available to attend a breakdown occurring on this appliance.

No charge will be made for parts and/or labour providing:

- ▶ An appliance fault is found and the appliance has been installed within the past 24 months
- ▶ Reasonable evidence of this must be supplied on request
- ▶ **A call-out charge will be made where:**
- ▶ The appliance has been installed for over 24 months OR
- ▶ Our Field Service Engineer finds no fault with the appliance (see Note). OR
- ▶ Evidence cannot be provided that the first year service inspection has been carried out. (i.e. an entry in the service interval record found at the rear of the appliance installation and servicing manual). OR
- ▶ The cause of breakdown is misuse or with other parts of your plumbing/heating system, or with equipment not supplied by Bosch Thermotechnology Ltd.

Note: NO APPLIANCE FAULT IS FOUND ON OVER 30% OF ALL SERVICE CALL OUTS.

Please read this guide carefully to gain a good understanding of the operation of your appliance. In the case of a suspected fault, refer to the fault finding section of this guide.

If in doubt contact Worcester, Bosch Group quoting the boiler serial and model number. These numbers are printed on a Data Label which is located on the inside of the controls flap. (You can record this information on the inside back cover of this manual.)

In the event of an appliance fault or breakdown please call the contact centre (see inside front cover for details). Your service administrator will arrange for an Engineer to call with the minimum of delay. Under normal circumstances this will be from 1 to 3 working days (excluding weekends) for priority breakdown situations (no hot water and/or heating).

Invoices for attendance and repair work carried out on this appliance by any third party will not be accepted.

YOUR GUARANTEE

This appliance is guaranteed against faulty materials or workmanship for a period of 24 calendar months (60 months for the primary heat exchanger) from the date of installation subject to the following conditions:

- ▶ That during the period of this guarantee any components of the unit which are proved to be faulty or defective in manufacture will be exchanged or repaired free of material charges and free of labour charges if repaired directly by Bosch Thermotechnology Ltd. Invoices for attendance and repair of this appliance by third parties will not be accepted for payment by Bosch Thermotechnology Ltd.
- ▶ That the householder may be asked to prove the date of installation, that the appliance was correctly commissioned and that the 12 month service has been carried out to the satisfaction of Bosch Thermotechnology Ltd, when requested. The guarantee card must then be returned within 30 days of installation.
- ▶ That any product or part thereof returned for servicing under the guarantee must be accompanied by a claim stating the Model, Serial Number and Date of Installation.
- ▶ That Bosch Thermotechnology Ltd will not accept responsibility for damage caused by faulty installation, neglect, misuse, accidental damage or non-observance of the instructions contained in the Installation and Users Instructions leaflets.
- ▶ That the appliance has been used only for normal domestic purposes, for which it was designed.
- ▶ That this guarantee applies only to equipment purchased and used in mainland Great Britain.

This guarantee is given in addition to all your normal statutory rights.

Worcester, Bosch Group is a brand name of Bosch Thermotechnology Ltd.

GUARANTEE

GUARANTEE REGISTRATION

You should complete and return the postpaid Guarantee Registration Card within 30 days of installation.

Returning your card will register you as the owner of your new appliance and will assist us in maintaining an effective and efficient customer service by establishing a reference and permanent record for your boiler.

This does not affect your statutory rights.

For your own record:

Model _____

Serial No. _____
(See identity label inside appliance casing)

Type / size _____

Date of installation _____

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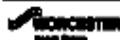
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GREENSTAR DANESMOOR WALL MOUNTED OIL 12/18 & 18/25
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USER INSTRUCTIONS & CUSTOMER CARE GUIDE

EXCELLENCE COMES AS STANDARD

Worcester, Bosch Group

Cotswold Way, Warndon, Worcester WR4 9SW.

Tel. 01905 754624 Fax. 01905 754619

www.worcester-bosch.co.uk

*Worcester, Bosch Group is a brand name of
Bosch Thermotechnology Ltd.*

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The logo for Worcester Bosch Group, featuring a stylized white wave icon to the left of the word "WORCESTER" in a bold, white, sans-serif font. Below "WORCESTER" is the text "Bosch Group" in a smaller, white, sans-serif font. The entire logo is set against a dark, vertically-oriented gradient background that transitions from light grey at the top to black at the bottom.

WORCESTER
Bosch Group