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# BOILERMATE<sup>2000</sup>

# FULLY INTEGRATED

# THERMAL STORE

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## USER INSTRUCTIONS

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In the interest of continuously improving the BoilerMate 2000 range. Gledhill Water Storage Ltd reserve the right to modify the product without notice and in these circumstances this booklet which is accurate at the time of printing should be disregarded.

Gledhill Guarantees the water storage vessel and components for material and construction faults for 2 years. This period is calculated from the date of purchase.

### **WARNING**

- There are no user adjustable parts inside the appliance. Tampering with sealed components will invalidate warranty and could also damage the appliance and make it unsafe to use.
- If it is known or suspected that a fault condition exists on the appliance it must be corrected by a competent person.
- **DON'T** place any clothing or other combustible materials against or on top of this appliance.

CE

**benchmark<sup>TM</sup>**

*The code of practice for the installation,  
commissioning & servicing of central heating systems*



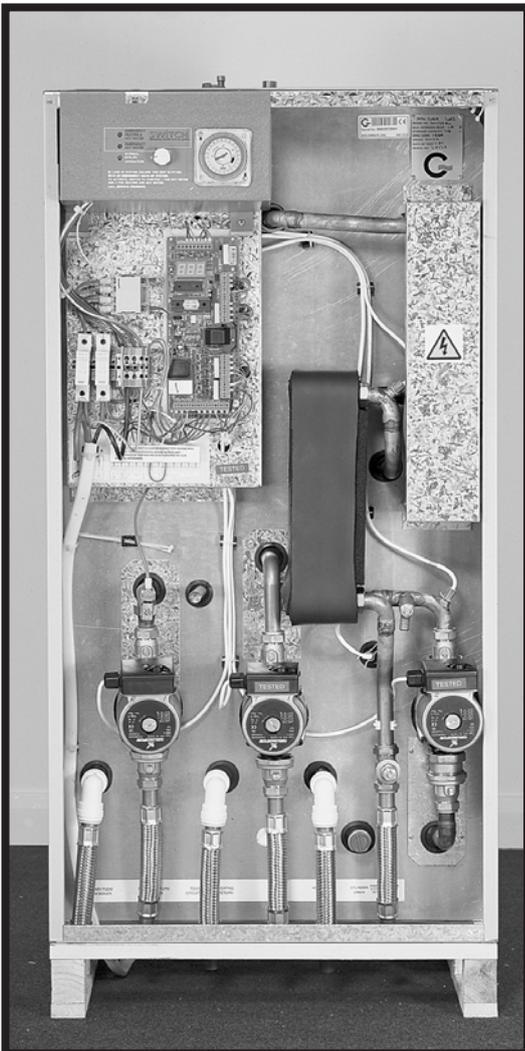
### WELCOME TO YOUR THERMAL STORAGE SYSTEM

### BOILERMATE 2000 - THE POWER BEHIND YOUR DOMESTIC HOT WATER AND CENTRAL HEATING

The hot water and central heating in your home is provided by a high specification storage system which will give you many benefits. Simple to operate and exceptionally efficient in operation, your BoilerMate 2000 Thermal Store is probably different to any water heating system you have ever experienced before. This booklet will explain why and how you can get the most from it.

One of the most technologically advanced water heating and storage systems available, your Gledhill BoilerMate 2000 is designed to fulfil four basic needs :

- 1. Provide rapid heat up of your property whenever you switch your heating on**
- 2. Supply heating and hot water more efficiently than conventional systems**
- 3. Provide hot water to every tap that has not deteriorated in storage tanks**
- 4. Provide, where possible, a dry loft**



**1. DELIVER LOTS OF HOT WATER AT GOOD PRESSURES WHENEVER YOU NEED IT**

Your Thermal Storage System is designed to provide all the hot water you are likely to need under normal circumstances, and deliver that hot water at a pressure comparable with your cold water mains. That means you can enjoy excellent showers without the need for a separate pump, or fill a bath with hot water in minutes.

**2. PROVIDE RAPID HEAT UP OF YOUR PROPERTY WHENEVER YOU SWITCH YOUR HEATING ON**

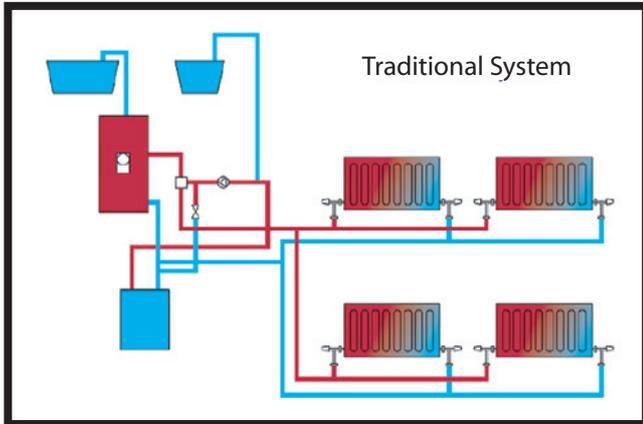
The highly efficient Thermal Storage System also means that your central heating will warm your house far more rapidly than a conventional system, with all your radiators reaching their efficient heating level in just a few minutes.

**3. SUPPLY HEATING AND HOT WATER MORE CHEAPLY THAN CONVENTIONAL SYSTEMS**

Your Thermal Storage System will ensure that your boiler operates more efficiently by eliminating unnecessary firing and costly use of fuel.

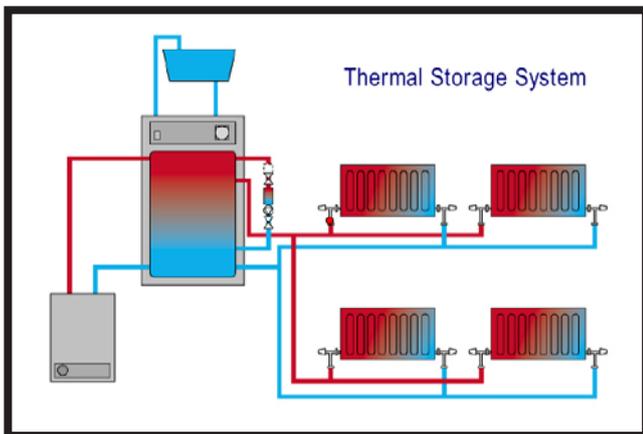
Because your boiler will operate in concert with the Gledhill BoilerMate 2000, it remains in the 'on' position 24 hours a day, 7 days a week, but fires only when needed to maintain the optimum temperature within your efficient Gledhill Thermal Store. **The boiler must be left at its maximum temperature setting for the system to operate efficiently.**

## USER INSTRUCTIONS



Your central heating still works on a timer which is fitted to your Thermal Store and thermostats control your room temperatures.

Hot water will be available any time you need it when the system is switched on, summer and winter. But instead of your boiler operation determining when you get hot water and heating, your needs for hot water and heating will determine when your boiler operates.



#### **4. PROVIDING HOT WATER THAT HAS NOT DETERIORATED IN STORAGE TANKS, TO EVERY TAP**

The BoilerMate 2000 is connected directly to the cold mains and, therefore, even the hot supply is pure potable water every time.

## WHAT IS A THERMAL STORE ?

The Gledhill Thermal Store is the heart and brain of your central heating system. It stores hot water at a constant temperature and incorporates a highly efficient plate heat exchanger which heats the hot water for all your domestic needs. The Thermal Store is superbly insulated and so the hot water stored has a very low heat loss. It also incorporates an intelligent sensor which determines when the temperature drops below a pre-set level required for optimum efficiency. When that temperature drop is detected, the Thermal Store instructs your domestic boiler to fire, generating the additional hot water needed to top up the store temperature. When the required temperature is reached, the boiler stops firing, until the next time it is required.

## WHY IS THE BOILER CONSTANTLY SWITCHED TO THE 'ON' POSITION

The system operates most efficiently if the boiler is always left on, **with the boiler thermostat always at its maximum setting - even in summer.** This is because the intelligent electronics within the Thermal Store control the system temperature automatically, based on demand. Your system should, generally, be left 'on' at all times. If you are away for a short period, the room thermostat can be set to a low level just to prevent frost damage to your domestic pipework systems.

### **HOW DOES THE SYSTEM DELIVER WATER AT HIGH PRESSURE**

The water to the taps and showers in your home is delivered at high pressure because it uses the mains pressure of your cold water supply. The BoilerMate 2000 is connected to the mains system and the water passes through a highly efficient heat exchanger to raise its temperature before it travels to your taps and showers.

Because it is so efficient, both high flow rates and high pressures are available to give the best performance for both baths and showers.

Water cisterns are required for the traditional domestic hot water system, and are generally located in the loft, to give a better 'head' of water. In most cases, the higher the cistern, the greater the pressure.

### **WHY ARE THERE NO WATER CISTERNS IN THE LOFT ?**

Because the Gledhill system uses the pressure from your cold water mains, these cisterns are not required, which removes any worries about freezing or contamination of the cold water system from insects, dust, birds etc and leaves more space for storage should you decide to use it.

Depending on the height of your airing cupboard it occasionally may be necessary to position the small expansion tank within the loft space e.g. in bungalows.

## CONTROLLING YOUR BOILERMATE 2000



Your BoilerMate 2000 is a highly advanced Thermal Storage System which incorporates the latest in microprocessor technology to monitor your system automatically and ensure it operates at maximum efficiency. This includes periodically 'spinning' the heating pump to prevent seizing during prolonged unused heating periods.

In normal circumstances, you should only be required to adjust the time clock on your Thermal Store, to suit your needs, and the instructions for this are described in detail on the label fitted to the appliance.

If your hot water or heating system should fail to operate satisfactorily, you will need to call a service engineer, who can then contact Gledhill Technical Department for any advice he may need or operate the 'SWITCH' option which is fitted to your BoilerMate 2000. [See 'Switch' at the back of this booklet]

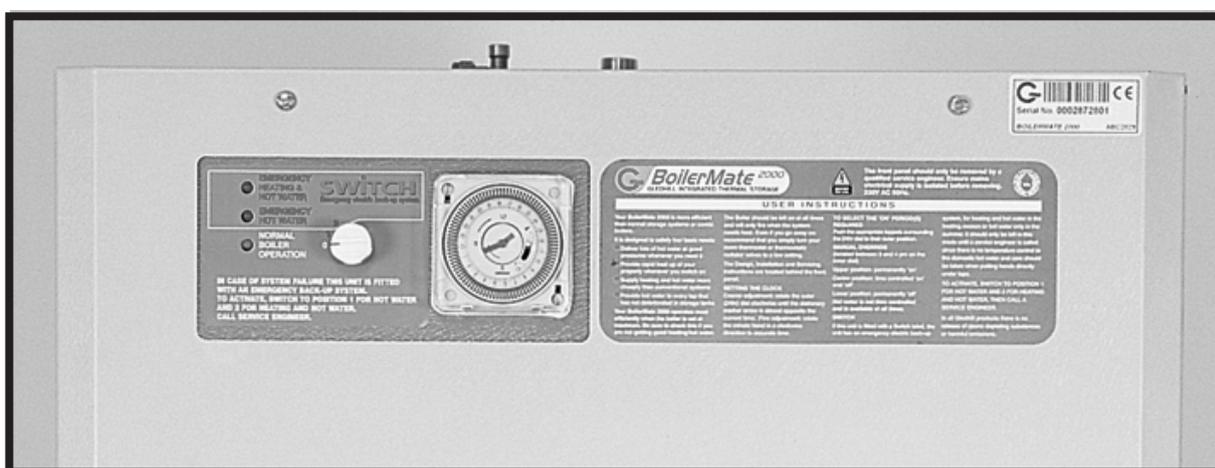
As detailed previously, the Thermal Store controls the temperature of the system. In order to ensure your system operates at its most efficient **the boiler thermostat should always be left at maximum.**

\* If you wish to draw a considerable quantity of hot water you will get an enhanced performance from your thermal store by setting your time clock to bring the heating on 20 minutes earlier.

# USER INSTRUCTIONS

## RESETTING THE HEATING PROGRAMME CLOCK

Hot water is not time controlled and is available at all times, but you control the time your central heating switches on and off with the timer on your Gledhill Thermal Store. Separate instructions for this will have been left for you by the installation engineer, or you can refer to the instructions on the label on the front of the appliance.



## USING THE UNIQUE 'SWITCH' EMERGENCY ELECTRICAL BACK-UP SYSTEM

Your BoilerMate 2000 is fitted with Gledhill's unique 'SWITCH' emergency electrical back-up system. You have an instant failsafe should your boiler cease to operate. The 'SWITCH' system will be clearly displayed on the front of your Thermal Store Appliance.

In the event of a boiler failure follow the instructions left by the boiler manufacturer. If you are unable to restore heating and hot water activate the 'Switch' and call the boiler service engineer. 'SWITCH' technology simply and instantly introduces an electric heating source within the Thermal Store to ensure that your hot water and heating continue to operate until you can have your boiler repaired. **Care should be taken when**

**your BoilerMate 2000 is operating under 'SWITCH' conditions as the hot water temperature will be higher than in its normal operating condition.**

Operation of 'SWITCH' is simple, just click to position 1 if you need hot water only or position 2 for hot water and heating and turn back to position zero once your boiler is repaired.



'SWITCH' is only designed for emergency use and you will need to call a service engineer once you have operated 'SWITCH'.

**GET TO KNOW HOW SWITCH WORKS BEFORE AN EMERGENCY ARISES!**

We recommend that you familiarise yourself with how SWITCH works as soon as possible by following these simple steps:

1. Click SWITCH to position 2 - hot water and heating
2. Check that the radiators are hot
3. Run a bath - this will help to use up all the hot water already stored in the system
4. Click SWITCH to position 1 - hot water only
5. Wait one hour, SWITCH will re-heat the water
6. After one hour, run another bath - if the water is hot, then SWITCH has successfully heated the hot water
7. Click SWITCH back to position 0.
8. Your heating and hot water will now return to their normal operation.





