

PULSACOIL²⁰⁰⁰

ELECTRIC THERMAL

STORE

USER INSTRUCTIONS



In the interest of continuously improving the PulsaCoil 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.

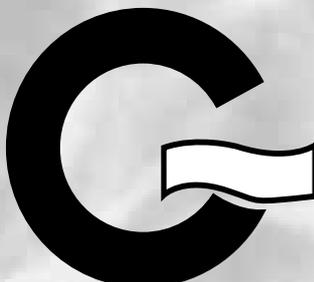
Gledhill offer a warranty on the water storage vessel and components for material and construction faults for the time periods stated in the Terms and Conditions of Trading from the date of purchase.

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.



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



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WELCOME TO YOUR THERMAL STORAGE SYSTEM

PULSACOIL 2000 - THE POWER BEHIND YOUR DOMESTIC HOT WATER



The hot water 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 Pulsacoil 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.

OPERATING CHARACTERISTICS

- with a Pulsacoil 2000, the domestic hot water you use at the tap is not stored but is produced instantaneously. This has the advantage of reducing the risk of contamination from things like Legionella as well as reducing the risks of scalding by allowing the temperature of the hot water at the tap to be controlled at about 55°C. **However, this also means that when you open the tap, the temperature takes a little time to stabilise.**
- the reason is simple; tepid water in the house pipework arrives at the tap first. Then the system "senses" that a tap has been opened so heat exchange is started and the domestic hot water will go fully hot to sterilise the pipework. Following that the controller will kick in and the supply will settle at 55°C (approximately).
- water should not be delivered to the tap below 50°C for health reasons; see HS (G) 70 HTM 2040.

This system delivers fresh water from the mains supply to the hot taps and is designed to fulfil three basic needs.

- 1. Deliver hot water at good pressures whenever you need it**
- 2. Operate as efficiently as possible to cost-effectively meet your household needs**
- 3. Provide hot water to every tap that has not deteriorated in storage tanks**

THIS APPLIANCE SHOULD BE LEFT PERMANENTLY CONNECTED TO THE OFF-PEAK ELECTRICAL SUPPLY AND NOT SWITCHED ON AND OFF WHEN HOT WATER IS NEEDED. PULSACOIL 2000 MODELS (EXCEPT MODEL PC125) ALSO HAVE AN ON-PEAK BOOST WHICH CAN BE SWITCHED ON FOR AN HOUR AT A TIME TO PROVIDE A BOOST TO THE TOP PART OF THE STORE ON DAYS WHEN A LARGE AMOUNT OF HOT WATER IS REQUIRED.

1. DELIVER 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. This means that you can enjoy powerful showers without the need for a separate pump, or fill a bath with hot water in minutes.

2. OPERATE AS EFFICIENTLY AS POSSIBLE TO COST-EFFECTIVELY MEET YOUR HOUSEHOLD NEEDS

Your Thermal Storage System will ensure that the energy it needs is minimised, avoiding costly use of fuel by taking advantage of off-peak tariffs whenever they are available.

Hot water is available any time you need it when the system is switched on, summer or winter.

3. DELIVERING HIGH QUALITY WATER TO EVERY TAP

With traditional systems which have a cold supply cistern in the roof space, there is always the risk that the tank could become contaminated by dust, birds or insects. The PulsaCoil is connected directly to the cold mains and therefore even the hot supply is pure high quality water every time.

WHAT IS A THERMAL STORE ?

The Gledhill Thermal Store is the heart and brain of your hot water 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.

Off-peak supplies will automatically be used to heat the thermal store. You will also have the option* to switch on to the on-peak electricity supply when necessary to provide a 'boost' to the top part of the thermal store to achieve the most efficient way of satisfying your demands on the system.

HOW DOES THE SYSTEM DELIVER HOT WATER AT HIGH PRESSURE?

The water delivered to the taps and showers in your home is supplied at high pressure because it uses the mains pressure of your cold water supply. The PulsaCoil 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.

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WHY ARE THERE NO WATER CISTERNS IN THE LOFT

Water tanks in the loft are required principally for the traditional domestic hot water system to give a better 'head' of water - which is basically determined by the height of the cistern above the tap being used. In most cases, the higher the cistern, the greater the pressure.

Because the Gledhill system uses the pressure from your cold water mains, these cisterns are not required.

This 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.

PLASTIC FEED TANK

The plastic feed tank should have been filled to the water line by the installer at the time of commissioning.

The water level in the plastic feed tank should be checked on a regular basis, generally 3-4 times a year, and topped up when necessary to approximately half way.

Once the level has been topped up or after it has been checked, ensure the lid has been securely replaced.

An optional sight glass can be fitted to the side of the feed tank, to overcome the need to remove the lid to check the water level.



WHAT IF THE SYSTEM DEVELOPS A FAULT ?

If your PulsaCoil should develop a fault, during the warranty period, switch the unit off and contact your house manager/installer. Do not attempt to remove or adjust any component part yourself.

If the developers warranty has expired contact the manufacturer if you have an active Service Agreement.

REMINDER !

The off peak controller adjacent to the PulsaCoil will have a manual boost switch/facility. This should be switched on for an hour during late afternoon to provide a boost to the top part of the Thermal Store on days when a large amount of hot water is required.

If you are considering changing your electricity supplier it is important that you ensure they are able to provide at least the same tariff. If not the operation and cost of running the appliance will be affected.

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BREAKDOWN / SERVICE

On expiry of your initial warranty period, Gledhill Response Limited would be pleased to provide further customer support with a range of services including:

- annual servicing and safety checks
- expert response to 'out of warranty' breakdowns at fixed charges
- low cost annual repair and maintenance contracts from as little as £75 per year

Please ring **08445 679898** or see www.gledhill.net for further details.



