

BoilerMate BP

Mains pressure hot water thermal store for use with gas or oil boilers

S U P P L I E R S T O T H E M E R C H A N T T R A D E F O R O V E R 3 5 Y E A R S



**Mains pressure hot water with
NO DISCHARGE REQUIREMENT**

This product overcomes Part G Building Regulation discharge requirements for unvented cylinders

BoilerMate BP

The BoilerMate BP is an open vented thermal store that does not require expensive safety valves and it provides mains pressure hot water. The BoilerMate BP is suitable for use with a gas or an oil boiler and the heating system can be either open vented or sealed. It is also suitable for upgrading existing traditional hot water systems.

BoilerMate BP thermal stores provide:

- Mains pressure hot water giving 'power shower' performance
- Up to 22 litres per minute filling a standard bath in 3-4 minutes
- A dry roof space eliminating the risk of freezing pipes/tanks in winter
- Increased system efficiency, reducing running costs

Easy to install BoilerMate BP can be fitted to existing systems, including the existing boiler and controls, where appropriate. Unlike unvented cylinders, BoilerMate BP does not require expensive safety controls or the need to plumb temperature and pressure relief pipework to outside. External expansion vessels are not required and wiring is the same as any traditional Y, S or W plan system.

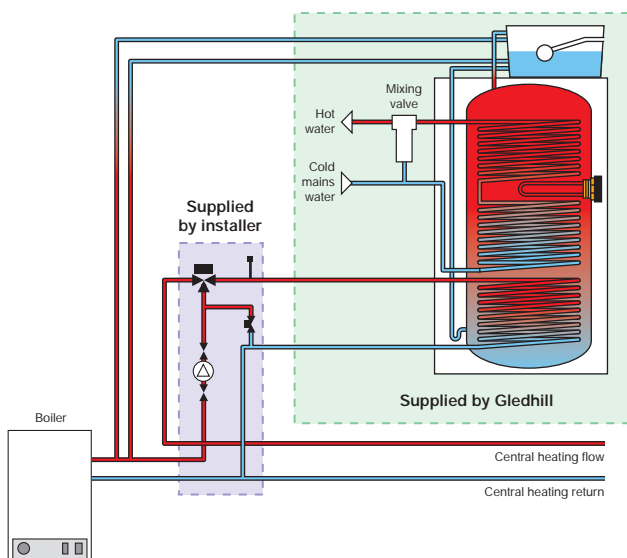
BoilerMate BP thermal stores do not require any annual maintenance. This complies with HWA spec for thermal stores.

The BoilerMate BP is supplied without any system kit, which can be purchased as optional extras or be provided by the installer. The base unit is suitable for either open vented or sealed heating systems with the appropriate system kit.

The thermal store is manufactured from copper sheet to BSEN 1653:1998. The computer designed heat exchangers are produced from finned tube and incorporate a patented expansion chamber which is sealed for life. The units are tested hydraulically and pneumatically, both during and after manufacture.

BS6700: 1997 states that with unvented cylinders, the "maintenance and periodic easing of temperature relief valves is particularly important". This is a landlord's responsibility in tenanted properties and annual checks must be carried out by a CITB trained person or installer, having G3 approval. As BoilerMate BP is vented and therefore inherently safe, there is no requirement for a

BoilerMate BP configuration for an open vented central heating system



Parts supplied with both unit types

- Feed and expansion cistern
- Cistern ball valve & float
- Thermostatic blending valve
- Mini expansion vessel

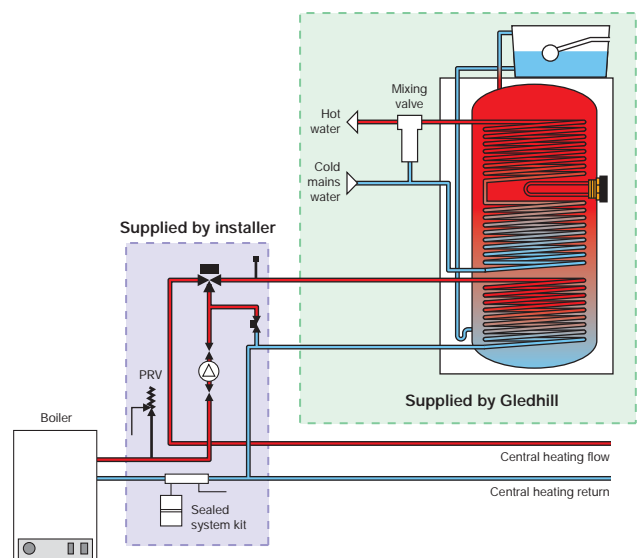
Factory fitted option

- In-line scale inhibitor
- Immersion heater

Supplied by installer for OV units

- Pump with isolating valves
- 3-port flow share valve
- Bypass valve
- Manual air vent
- Immersion heater

BoilerMate BP configuration for a sealed central heating system



Supplied by installer for SP units

- Pump with isolating valves
- 3-port flow share valve
- Bypass valve
- Manual air vent
- Pressure relief valve
- CH expansion vessel
- System filling kit including hose and pressure gauge
- Immersion heater

BoilerMate BP Technical Specification						
Description		BMBP 125	BMBP 145	BMBP 185	BMBP 215	BMBP 225
Appliance height	mm	1262	1262	1423	1584	1784
Appliance width	mm	580	580	580	580	580
Appliance depth	mm	595	595	595	595	595
Approx weight (empty)	kg	53	55	61	67	75
Approx weight (full)	kg	183	185	214	235	265
Total volume (nominal)	litres	125	130	153	168	190
Heat loss	kWh/24hr	1.48	1.57	1.65	1.72	1.85
Max. hot water flow rate	litres/minute	18	18	18	22	22

BoilerMate BP Model Selection						
Description		BMBP 125	BMBP 145	BMBP 185	BMBP 215	BMBP 225
Bedrooms		1-3	2-3	2-4	3-5	4-6
Bathrooms		1	1	2	1 2	1 2
En-Suite shower		1	2	1	4 2	4 3

Notes:

1. The appliance is supplied on a 100mm high installation base and comes complete with a separate top up cistern. This can be installed with or without an overflow/warning pipe as required.
2. An allowance for the top up cistern and the 100mm installation base are both included in the minimum cupboard dimensions.
3. Where the mains water hardness exceeds 200ppm provision should be made to treat the feed water to reduce the rate of accumulation of lime scale. The optional factory fitted in-line scale inhibitor should be specified at the time of order for hardness levels between 200 and 300 ppm (mg/l). Where the water is very hard ie 300ppm (mg/l) and above the optional polyphosphate type scale inhibitor should be specified at the time of order.

safety discharge, and it is not subject to Building Control Regulations – thus simplifying installation and system maintenance enormously for the landlords or homeowners.

BoilerMate BP is a mains pressure vented hot water thermal store suitable for open vented and sealed heating systems. The unit can be fitted with a conventional ‘S’ plan, ‘Y’ plan or a control system of your choice, and the controls can be plumbed inside the appliance giving a clean finish within the airing cupboard. The header tank can be sited on top of the unit or remotely for maximum installation flexibility.

The BoilerMate BP thermal storage system is supplied with primary water from the boiler which heats the store via a primary coil. Secondary water flows directly from the cold mains into a secondary coil where it is heated by the store before being delivered to the taps.

It is not widely appreciated that uncased foam insulated cylinders can lose up to 40% of their insulation value within weeks of manufacture and can emit dangerous smoke if involved in a fire and therefore the BoilerMate BP has been designed with an outer metal case. As with all Gledhill cylinders there is no release of ozone depleting substances or harmful emissions. Industry leading foam insulation is used to provide exceptionally low standing heat loss.

BoilerMate BP models are designed to be fed directly from the mains. They fulfil the requirements of Water Regulations and therefore do not require a check valve to be fitted to the supply pipe. The performance of the BoilerMate BP is directly related to the adequacy of the cold supply to the dwelling. This must be capable of providing for those services which could be required simultaneously and the maximum demand should be calculated. BoilerMate BP will operate at dynamic pressures as low as 1.5 bar (at the appliance) which must be available when local demand is at its maximum, but the preferred range is between 2 and 3.5 bar. As a general guideline, although a 15mm external service may be sufficient for the smaller dwelling with one bathroom, a 22mm service is preferred (25mm MDPE) and should be the minimum for larger dwellings.

This appliance is suitable for use with plastic pipework as long as the material is recommended for the purpose by the manufacturer and is installed fully in accordance with their recommendations.

The Domestic Heating Compliance Guide published in May 2006 requires a water treatment device to be fitted where the hardness is greater than 200ppm. Full details are given in the Design & Installation manual supplied with all BoilerMate BP units.

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Due to a programme of continuous improvement Gledhill Building Products reserve the right to modify products without prior notice. It is advisable to check the product technical detail by using the latest design and installation manuals available from our technical support team or on our website.